

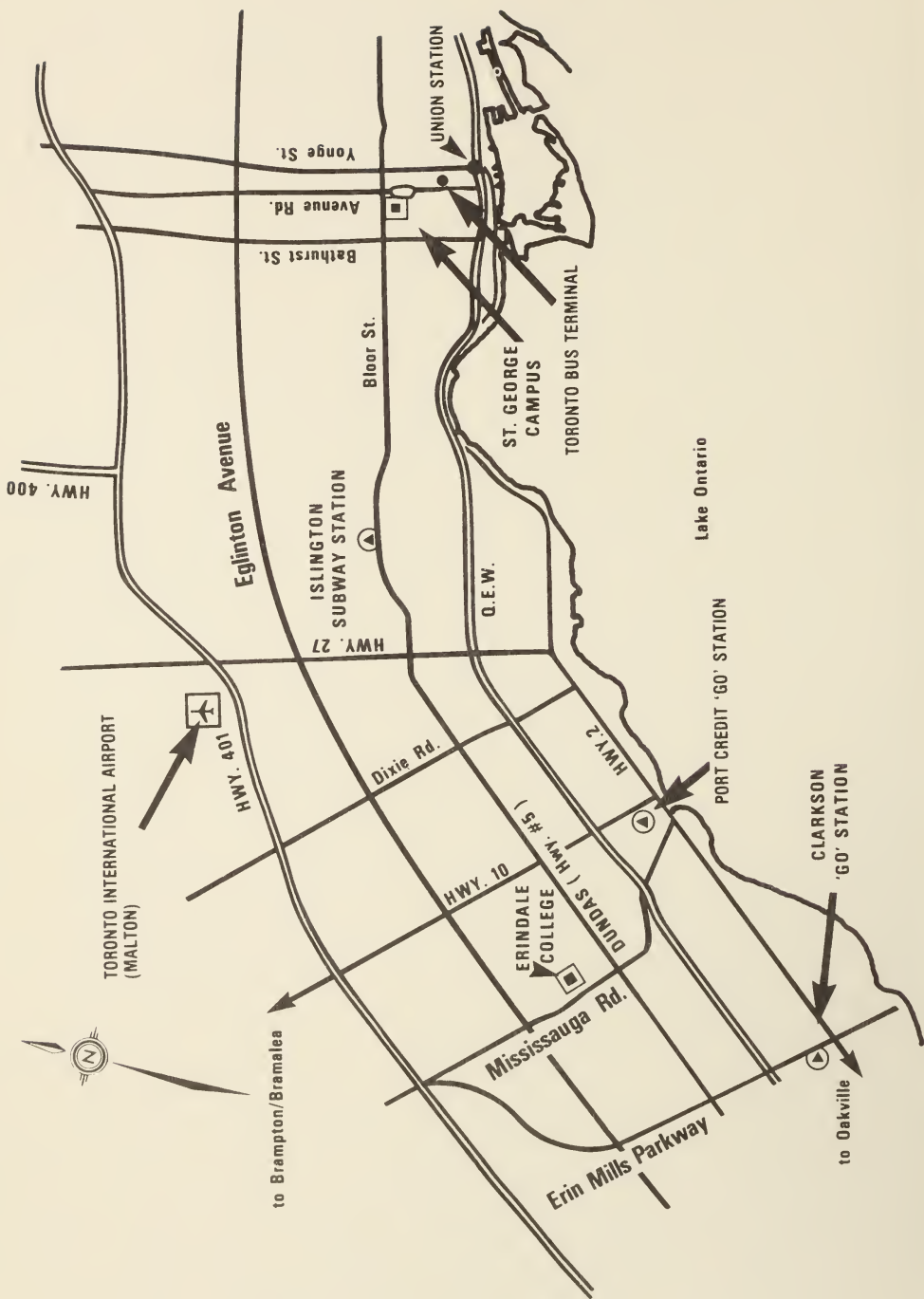
Erindale College

University of Toronto IN MISSISSAUGA

Calendar 1981-82

Faculty of Arts
and Science





See inside back cover for Campus map.

Erindale College

University of Toronto IN MISSISSAUGA

Calendar 1981-82

Faculty of Arts
and Science



*Cover designed by Design Unit, University of Toronto Press
Printing by The University of Toronto Press
Edited by the Office of the Registrar*

Erindale College

University of Toronto

1981-1982



On January 8, 1975, the College of Arms granted to Erindale College its coat of arms in the following heraldic terms.

"Vert a Chevron Barry wavy Argent and Azure a Bordure embattled Or And for the Crest On a Wreath Or and Vert Issuing from the battlements of a Tower proper rising from Water Barry wavy Azure and Argent an Oak Tree fructed Or leaved proper, as the same are in the margin hereof more plainly depicted. And by the authority aforesaid We do further grant and assign the following Device or Badge that is to say a Roundel Vert thereon a Pile throughout Or overall a Fess wavy Azure charged with a like Barrulet Argent."

Green and gold, the colours of Erindale predominate in the coat of arms representing the natural beauty of the campus. The oak tree comes from the University of Toronto coat of arms with its motto, *Velut arbor aevo*, "May the tree thrive". The wavy blue and silver bars in the chevron signify the location of the College at a major bend in the Credit River and the motto, *Tantum Nobis Creditum*, "So much has been entrusted to us" is a word play on the name of the river.

Erindale College, one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto, opened in September 1967, as a suburban campus of the University of Toronto. The College offers the Arts and Science Programme of the University of Toronto and students may qualify for the University of Toronto Bachelor of Arts or Bachelor of Science degree in either a three or four year programme. A Bachelor of Commerce degree is also offered. The admission regulations are those of the University of Toronto.

Erindale College is located twenty miles west of downtown Toronto on Mississauga Road, in the City of Mississauga. (See the map inside the front cover for directions).

Anyone wishing information about the College should address: The Registrar, Erindale College, University of Toronto, Mississauga Road, Mississauga, Ontario, L5L 1C6.

The telephone number for information about full-time studies is 416-828-5399 and for part-time studies is 416-828-5244.

Important Notices

- 1) The Council of the Faculty of Arts and Science reserves the right to change the content of, or to withdraw, any course. In such cases every effort will be made to provide equivalent alternative instruction, but this cannot be guaranteed.
- 2) The Faculty also reserves the right to limit the number of students in any course or any section of a course in circumstances where the number of qualified applicants exceeds the resources available. Notwithstanding this, every effort will be made to accommodate students, particularly in 100-series courses, although it is understood that some limitation on the availability of certain sections will have to be made.
- 3) The University reserves the right to alter the fees and other charges described in the Calendar.
- 4) This calendar provides information for Erindale campus only. Two other Arts and Science calendars are published by the University of Toronto, one for the St. George campus and the other for the Scarborough campus.
- 5) The words "man" and "he" are used in the generic sense throughout this Calendar.
- 6) The University holds the student responsible for knowing the rules and regulations printed in the calendar.
- 7) Receipt of registration material or any college publication, submission of a registration form or payment of fees does not necessarily constitute eligibility to register in the coming session. Students who are suspended as a result of the May or August examinations will be so informed on the Statement of Results and will not be permitted to register. Any fees paid toward the session will be refunded in full.

Using This Calendar

The Erindale calendar serves as a counselling guide and statement of the most important rules and regulations for students seeking to obtain the degree of Bachelor of Arts, Bachelor of Science or Bachelor of Commerce from the University of Toronto through Erindale College.

Each department offering courses at Erindale has included a list of its academic staff, an introductory essay, and the programmes which it sponsors. When selecting courses, the student should read these essays, as well as the descriptions of courses offered, and seek advice from academic counsellors when necessary. Particular attention should be paid to exclusions, prerequisites and corequisites. Students who wish to have such requirements waived, or who have equivalent qualifications, must consult the department offering the course.

It is the students' responsibility to make sure that they observe the rules and regulations of the Faculty, important dates, etc.. All students should refer to the list of *Sessional Dates* so as to avoid incurring academic or financial penalties and are urged to read the sections entitled *Academic Status* and *Degree Requirements* as these state concisely what is required in order to qualify for the degree.

All students entering Erindale in 1980, and thereafter, are governed by the *Erindale New Curriculum* which among other things requires that a student who wishes a three-year degree must complete a major programme in a discipline or "approved area of study" and if planning a four-year degree must complete a specialist programme in a discipline or "approved area of study", or two major programmes. Some departments offer minor programmes (3 courses). Students may qualify for these but they are not required for the degree. Details of specialist and major and minor programmes are to be found in Section 7 *Courses and Programmes*. Study these carefully and once you have chosen the specific programme or general area you wish to follow, you can begin to choose the specific courses which will lead you to your goal. The courses are described in Section 8 and many departments have more detailed brochures to help you in your choice. The index at the back of this calendar and the explanation of symbols and course codes should be consulted frequently. The Registrars and the staff of the Registrar's Office are the experts on rules, regulations, degree requirements and everything that affects the student's academic life. *When in doubt, ask your Registrar.*

Related Publications

Timetable and Registration Information

These supplements to the Calendar are issued in June and again in September in time for the Winter Session registration week. They contain specific instructions for registration and enrolment, and detailed timetable and scheduling information for the winter session. The information they contain is just as important as that in this Calendar.

Summer Session 1981

This contains details of courses offered in the Summer Session and is available in March.

The Erindale College Awards Bulletin

This provides information on Government financial assistance, scholarships, medals, prizes and bursaries. A copy may be obtained from the Student Aid Office, Room 211, North Building, or the Registrars' Offices in both the North and South Buildings.

CALENDAR

1981

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CALENDAR

1982

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Academic Year

The academic year is divided into a Summer and a Winter Session, and each session is divided into two terms. The dates for the Sessions and their terms are:

Summer Session 1981

First Term: Monday, May 11, 1981 - Thursday, June 25, 1981

Second Term: Monday, June 29, 1981 - Friday, August 21, 1981

Winter Session 1981-82

First Term: Monday, September 14, 1981 - Wednesday, December 23, 1981

Second Term: Monday, January 4, 1982 - Friday, May 7, 1982

Sessional Dates

Applicable Session	Day	Date	Event
S	Mon.	March 30	Last date for new students to <i>apply for admission</i> in order to take in A, F, H, and Y courses which begin in May of the Summer Session
S	Wed.	April 1	<i>Registration</i> for Summer Session and <i>enrolment</i> in Summer courses begin
S	Fri.	April 17	Good Friday - University closed
S	Fri.	May 8	Last date for <i>registration</i> in A, F, H, and Y courses in the Summer Session; after this date a late registration fee will be imposed
S	Mon.	May 11	First term begins. Classes begin in A, F, H and Y courses
S	Fri.	May 15	Last date for new students to <i>apply for admission</i> in order to <i>enrol</i> in courses which begin in July of the Summer Session
S	Fri.	May 15	Last date to <i>add</i> A, F, H and Y courses
S	Mon.	May 18	Victoria Day - University closed
S,W	Tues.-Wed.	May 26-27	English Proficiency Tests for newly-admitted degree students
S	Fri.	June 5	Last date to <i>drop</i> A and F courses without academic penalty
W	Wed.	June 17	Spring Convocation for Erindale College
S	Fri.	June 19	First term ends
			Classes end in A and F courses; <i>all term work to be submitted</i> by this date
S	Mon.-Thurs.	June 22-25	<i>Final examinations may be held</i> in A and F courses
S	Fri.	June 26	Classes in H and Y courses <i>continue to meet</i>
S	Mon.	June 29	Last date for <i>registration</i> in B and S courses. After this date a late registration fee will be imposed
W	Tues.	June 30	Second term begins. Classes begin in B and S courses
S	Wed.	July 1	Last date to submit request for College transfer for full-time studies in the Winter Session - 1981-82
S	Tues.	July 7	Dominion Day - University closed
S	Fri.	July 17	Last date to <i>add</i> B and S courses
S	Fri.	July 17	Last date to <i>drop</i> H and Y courses without academic penalty
S	Fri.	July 24	Last date to <i>drop</i> B and S courses without academic penalty
S	Mon.	August 3	Civic Holiday - University closed
S	Fri.	August 14	Classes end in B, H, S and Y courses; <i>all term work to be submitted</i> by this date
S	Mon.-Fri.	August 17-21	<i>Final Examinations</i> in B, H, S and Y courses
			Last date for submission of petitions for aegrotat consideration.
W	Mon.	September 7	Labour Day - University Closed
W	Tues.-Fri.	September 8-11	Registration week
W	Fri.	September 11	Last date for <i>registration</i> in the Winter Session; after this date, a late registration fee will be imposed
S	Fri.	September 11	Statements of Results mailed beginning today
W	Mon.	September 14	First term begins. Classes begin in A, F, H and Y courses
S,W	Tues.-Fri.	September 22-25	English Proficiency Tests for newly admitted degree students. See <i>Timetable and Registration Information</i> for details

1981

Sessional Dates

Applicable Session	Day	Date	Event
W	<i>Fri.</i>	September 25	Last date to <i>add</i> A, F, H and Y courses
S	<i>Fri.</i>	September 25	Last date for students who expect to graduate at the Fall Convocation to notify their College Registrar
W	<i>Mon.</i>	October 12	Thanksgiving Day - University closed
W	<i>Mon.</i>	October 19	Meeting of the Erindale College Council
W	<i>Fri.</i>	November 6	Last date to <i>drop</i> A and F courses without academic penalty
W	<i>Tues.</i>	November 24	Meeting of the Erindale College Council
W	<i>Wed.-Fri.</i>	November 25-27	Fall Convocation for the Faculty of Arts and Science
W	<i>Fri.</i>	December 11	First term ends. All term work in A and F courses to be submitted by this date
W	<i>Mon.-Wed.</i>	Dec. 14-23	<i>Final Examinations</i> for A and F courses Term tests for multi-sectioned H and Y courses may be held
W	<i>Tues.</i>	December 15	Last date for students in Study Elsewhere Programme to confirm their programmes
W	<i>Wed.</i>	December 23	Christmas Holidays begin. Last date for submission of petitions for aegrotat consideration.

1982

W	<i>Mon.</i>	January 4	Second term begins. Classes begin in B and S courses and resume in H and Y courses Nominations open for Erindale College Council
W	<i>Fri.</i>	January 15	Second term installment of fees due
W	<i>Fri.</i>	January 15	Last date to <i>add</i> B and S courses
W	<i>Wed.</i>	January 27	Meeting of the Erindale College Council
W	<i>Fri.</i>	February 5	Nominations close for Erindale College Council
W	<i>Fri.</i>	February 12	Last date to <i>drop</i> H and Y courses without academic penalty
W	<i>Mon.</i>	February 15	Last date to apply for the Study Elsewhere Programme
W	<i>Mon.-Fri.</i>	February 15-19	Reading week
W	<i>Fri.</i>	February 19	Last date for students who expect to graduate at the Spring Convocation to notify their College Registrar
W	<i>Fri.</i>	February 26	Last date to <i>drop</i> B and S courses without academic penalty
W	<i>Mon.</i>	March 15	Meeting of the Council of the Faculty
W	<i>Thurs.</i>	March 18	Meeting of Erindale College Council
S	<i>Thurs.</i>	April 1	Last date for new students to <i>apply for admission</i> in order to enrol in A, F, H and Y courses which begin in May of the Summer Session
W	<i>Thurs.</i>	April 8	Classes end; all work in B, H, S and Y courses to be submitted by this date
W	<i>Fri.</i>	April 9	Good Friday; University closed
W	<i>Mon.-Fri.</i>	April 12-16	Study Week; no tests or examinations may be held in this period
W	<i>Mon.-Fri.</i>	April 19-May 7	<i>Final examinations</i> for B, H, S and Y courses
W	<i>Fri.</i>	May 7	Last date for submission of petitions for aegrotat consideration

1982

Sessional Dates

Applicable Session	Day	Date	Event
S	Mon.	May 17	First term begins. Classes begin in A, F, H and Y courses
W	Tues.	June 1	Statements of Results for Graduating students mailed beginning today
W	Mon.	June 14	Spring Convocation for the Faculty of Arts and Science begins
W	Tues.	June 15	Statements of Results for students who are not graduating mailed beginning today
S	Fri.	June 25	First term ends Classes end in A and F courses; all term work <i>to be submitted</i> by this date. Classes in H and Y courses continue to meet
W	Wed.	June 30	Last date for receipt of applications for College transfer for full-time studies in the Winter Session
S	Wed.	June 30	Last date for new students to apply for admission
S	Mon.	July 5	Second term begins Classes begin in B and S courses
S	Fri.	August 13	Classes end in B, H, S and Y courses; <i>all term work to be submitted</i> by this date
S	Mon.-Fri.	August 16-20	<i>Final examinations</i> in B, H, S and Y courses
S	Fri.	September 10	Statements of Results mailed beginning today

Note: Course suffixes in this section refer to those which appear in Timetable & Registration Information.

Administrative Staff

Officers of the University of Toronto - 1980-81

<i>Chancellor</i>	Very Rev. A.B.B. Moore, BA, DD, LLD
<i>President</i>	J.M. Ham, BAsC, SM, ScD
<i>Special Assistant to the President</i>	J.H. Sword, MA, LLD
<i>Chairman of the Governing Council</i>	Marnie Paikin, BA
<i>Vice-President and Provost</i>	D.A. Chant, MA, PhD, FRES, FRSC, FESC, LLD
<i>Vice-Provost</i>	E. Kingstone, BSc, MD, CM
<i>Vice-Provost</i>	M. Israel, BS, MA, PhD
<i>Vice-Provost</i>	R.W. Missen, MSc, PhD, FCIC
<i>Vice-President, (Research and Planning) and Registrar</i>	H.C. Eastman, AM, PhD, FRSC
<i>Vice-President, Business Affairs</i>	A.G. Rankin, BCom, FCA
<i>Vice-President, Campus & Community Affairs</i>	W.E. Alexander, BSP, MSc, PhD
<i>University Ombudsman</i>	E.A. McKee, MA
<i>Chief Librarian</i>	R. Blackburn, MA, BLS, MS, LLD
<i>Secretary of the Governing Council</i>	D.S. Claringbold
<i>Director of Admissions</i>	W. Kent, MA
<i>Director of Student Awards</i>	P.S. Phillips, BA, CA
<i>Director of Student Record Services</i>	J.C. Wilson, BAsC, MSc, PhD
<i>Warden of Hart House</i>	R.M.H. Alway, MA, PhilM
<i>Coordinator of Campus Services</i>	H.L. Reimer, BA, BPaed
<i>Director of the Advisory Bureau</i>	D.J. McCulloch, BA, MD, DPpsych, FRCP(C)
<i>Director of Athletics</i>	A.J. Fraser, BSc (PE), MA
<i>Director of Career Counselling and Placement Centre</i>	R. Frankle, BA
<i>Director of University Health Service</i>	G.E. Wodehouse, MC, MD, FRCP(C), MRCP
<i>Director of Housing Services</i>	S. Mason, BA
<i>Director of International Student Centre</i>	E. Paterson, BA

Officers of the Faculty of Arts and Science - 1980-81

<i>Dean Emeritus</i>	V.W. Bladen, MA, LLD, DLitt, FRSC(S)
<i>Dean</i>	A.M. Kruger, BA, PhD
<i>Vice-Dean</i>	J. Spelt, MA, PhD
<i>Associate Dean</i>	R.E. Pugh, MA, PhD
<i>Associate Dean</i>	J.R. Webster, MA, PhD
<i>Assistant Dean and Secretary</i>	W.D. Foulds, BA
<i>Assistant Secretary</i>	C.R.C. Dobell, BA
<i>Executive Assistant</i>	J.M. Mills, BA
<i>Director of Student Affairs</i>	P.D. Harris, MA
<i>Director of Academic Records</i>	D. Keeling, MA
<i>Coordinator - Administrative Systems</i>	C.A. Belford, BTh
<i>Coordinator - Academic Systems</i>	A.M. Lewis, BA

Officers of Erindale College - 1980-81

<i>Principal</i>	P.W. Fox, MA, PhD
<i>Vice-Principal (Academic)</i>	R.W. Van Fossen, AM, PhD
<i>Vice-Principal & Registrar</i>	R. Ross, MBE, MA
<i>Executive Assistant</i>	L.E. Weir
<i>Coordinator, Community & Secondary School Liaison</i>	T. Reid, BSc
<i>Associate Dean (Humanities & Part-Time Studies)</i>	R.W. Van Fossen, AM, PhD
<i>Associate Dean (Social Sciences)</i>	L.J. Brooks, BCom, MBA, CA
<i>Associate Dean (Sciences)</i>	J.J. Fawcett, BSc, PhD
<i>Librarian</i>	H.L. Smith, BA, BLS
<i>Associate Registrar (Humanities & Part-Time Studies)</i>	L.T. McCormick, BA, AM, PhD
<i>Associate Registrar (Sciences & Social Sciences)</i>	M.H. Cooper, BA
<i>Athletics & Recreation</i>	
<i>Director</i>	R.M. Ryckman, BA, MEd, PhD
<i>Assistant Director</i>	G. Fitch, BPHE
<i>Manager, Business Services</i>	R.S. Rawlings, BA
<i>Coordinator, Career Counselling and Placement Centre</i>	E. Paley, BA
<i>Health Service</i>	
<i>Coordinator</i>	V.I. Degutis, RegN
<i>Physicians</i>	E.G. Davies, BSc, PhmB, MD, CCFP(C) R.P. Davis, MB, ChB, DObstet, RCOG, CCFP(C)
<i>Psychiatrist</i>	G.W. Tisdall, MD, DPsych, FRCP(C)
<i>Manager, Physical Plant Services</i>	A. Opalinski, BSc, PEng
<i>Resident Artist</i>	M. Guderna
<i>Student Aid Officer</i>	L. Webber
<i>Director, Student Housing</i>	M.J. Lavelle, MA
<i>Coordinator, Technical Services</i>	A.W. Boorman
<i>Director, Writing Laboratory</i>	M. Northey, MA, PhD

Erindale College Faculty

(As of 1980-81)

**Denote Discipline Representative*

Division of Humanities

Classics

R.L. Beck, *BA (Oxford), MA, PhD (Illinois)*

T.G. Elliott, *BA (Toronto), PhD (Harvard)*

R. Ross, *MBE, MA (St. Andrews)*

*C.I. Rubincam, *BA (Toronto), BA (Oxford), PhD (Harvard)*

English

T.H. Adamowski, *BA (Delaware), MA, PhD (Indiana)*

J. Astington, *BA (Leeds), MA (McMaster), PhD (Toronto)*

J. Brady, *BA (Toronto), MA, PhD (Princeton)*

*B. Corman, *AB, AM, PhD (Chicago)*

V.A. DeLuca, *BA (Hamilton Coll), MA, PhD (Yale)*

J. Dutka, *BA, MA (Alberta), ARCT (RCM, Toronto), PhD (Toronto)*

D. Hill, *AB (Kenyon Coll), MA, PhD (Columbia)*

D.I. Lancashire, *BA (Manitoba), MA, PhD (Toronto)*

M.J. Levene, *BA (Manitoba), MA, PhD (Toronto)*

M. Lynch, *BA (Goddard Coll), PhD (Iowa)*

R.R. McLeod, *AB (Harvard), MA, PhD (Toronto)*

M. Northey, *BA (Toronto), MA, PhD (York)*

J. Skvorecky, *PhD (Charles)*

R. Sullivan, *BA (McGill), MA (Connecticut), PhD (Sussex)*

R.W. Van Fossen, *AB, AM (Duke), PhD (Harvard)*

Fine Art

L. Eleen, *BA, MA, PhD (Toronto)*

T. Martone, *BA, MA (Boston), MA (Inst Fine Art, NY) PhD (NYU)*

*B. Welsh, *BA, MPhil, (Toronto), PhD (Utrecht)*

French

G. Berubé, *MA (Assumption), BA (Laval)*

C. Cloutier-Wojciechowska, *LèsL (Laval), Ddel'U (Paris)*

*M-P. Ducretet, *LPhL, AgrEMS (Lovanum), DPhL (Louvain)*

J. Féral, *LèsL (Paris), MA (Ottawa), D IIIe C (Paris)*

J. Le Gall, *BA (Alberta), MA (Toronto)*

N.J. Swallow, *BA, MA, PhilM (Toronto)*

D.A. Trott, *BA (UBC), MA, PhD (Toronto)*

H.H. Weinberg, *BA (Roosevelt), MA (Northwestern), PhD (Michigan)*

German

J. Bielert, *BA (Queen's), MA, PhD (Toronto)*

L. DeLong, *BA (Mount Allison), MA, PhD (Toronto)*

*C. Saas, *BA (Wisconsin), MA, PhD (Indiana)*

History

S. Aster, *BA, MA (McGill), PhD (LSE, London)*

M. Dafoe, *BA (Manitoba), MA (Queen's)*

J.W. Goering, *BA (Kansas), MAR (Yale), MA, MSL, PhD (Toronto)*

R.E. Johnson, *BA (Antioch), PhD (Cornell)*

*C. La Vigna, *BA (Skidmore), PhD (Rochester)*

D.P. Morton, *BA (RMC), BA, MA (Oxford), PhD (London)*

R.W. Pruessen, *BA (CUNY), MA, PhD (Pennsylvania)*

D. Raby, *BA (Cambridge), PhD (Warwick)*

E. Sager, *BA MA PhD (UBC)*

R. Stein, *BA (UBC), MA (Sussex), PhD (York)*

W.B. White, *AB (Missouri), MS, PhD (Wisconsin)*

Italian

L.T. McCormick, *BA (Toronto), AM, PhD (Rutgers)*

*G. Pugliese, *BA, MA, PhD (Toronto)*

R. Sinyor, *BA, MA PhD (McGill)*

A.C. Yu, *BA (Brock), MA (Toronto)*

Linguistics

E. Cowper, *BA (McGill) AM PhD (Brown)*

Philosophy

J.V. Canfield, *BA (G. Washington), MA, PhD (Brown)*

C.E. Cassin, *BA, MA (Oxford), MA, PhD (Florida)*

D.D. Evans, *BA, (Toronto), BD (McGill), BPhil DPhil (Oxford)*

K. Henwood, *BA (Colorado), MA, PhD (Toronto)*

W.J. Huggett, *BA, MA, PhD (Toronto)*

R.A. Imlay, *BA, MA (UWO), PhD (Glasgow)*

*B.D. Katz, *BA (Manitoba), MA, PhD (Cornell)*

G.P. Nagel, *BA, MA (SFU), PhD (Cambridge)*

L.W. Sumner, *BA (Toronto), MA, PhD (Princeton)*

Religious Studies

*L.J. Elmer, *BA, STB (Toronto), STD (St Thom Aquinas)*

M.J. Lavelle, *BA (Windsor), MA (Marquette)*

S.A. Nigosian, *BA (Toronto) MA, PhD (McMaster)*

H.J. Rollmann, *BA (Pepperdine), MA (Vanderbilt), PhD (McMaster)*

L.E. Schmidt, *BA, MA, PhD (Toronto)*

Slavic Languages and Literature

*K.A. Lantz, *BA (Alberta), MA, PhD (Toronto)*

N.N. Shneidman, *MPHE (Minsk), MA, PhD (Toronto)*

Spanish

E. Azzario, *BA (Liceo Nacional Nro. 2), PhD (NYU), Prof. en Let. (Buenos Aires)*

M. Cohen, *DocFilRom (Madrid)*

O. Hegyi, *PhD (Toronto)*

*E.G. Neglia, *BA (Roosevelt), MA (Illinois), PhD (Washington Univ.)*

Division of Sciences

Life Sciences

Botany

J.B. Anderson, *BA (Rhode Island), PhD (Vermont)*

P.W. Ball, *BSc (London), PhD (Leicester)*

W.R. Cummins, *BSc (McMaster), PhD (Michigan State)*

*W.G. Filion, *BA (Queen's), MSc (Guelph), PhD (UWO)*

P.A. Horgen, *BA (N Iowa), MSc (Iowa), PhD (SUNY)*

P.F. Maycock, *BA (Queen's), MSc, PhD (Wisconsin)*

J. Svoboda, *BSc (UWO), PhD (Alberta)*

G.R. Thaler, *MSc (McMaster), PhD (Toronto)*

Psychology

- R. Abramovitch, *BA (McGill), MA, PhD (Minnesota)*
 T.M. Alloway, *BA (Knox), MA, PhD (Northwestern)*
 K. Blankstein, *BA (McMaster), MA, PhD (Waterloo)*
 S. Chaiken, *BS (Maryland), MS, PhD (U Mass)*
 C.M. Corter, *BA (Davidson), PhD (UNC)*
 F.I.M. Craik, *BSc (Edinburgh), PhD (Liverpool)*
 A.S. Fleming, *BSc (Columbia), PhD (Rutgers)*
 *L. Krames, *BA, MA, PhD (Temple)*
 G. Logan, *BA, MSc (Alberta), PhD (McGill)*
 M. Moscovitch, *BSc (McGill), MA, PhD (Penn)*
 P. Pliner, *BS (Purdue), PhD (Columbia)*
 J. Polivy, *BS (Tufts), MA, PhD (Northwestern)*
 B. Schneider, *BA (Michigan), PhD (Harvard)*
 I.M. Spiegel, *BA (New York), MA, PhD (Temple)*
 S.E. Trehub, *BCom, MA, PhD (McGill)*

Zoology

- T.M. Alloway, *BA (Knox), MA, PhD (Northwestern)*
 N.C. Collins, *BA (Pomona), PhD (Georgia)*
 J.H. Fullard, *BSc, (Toronto), MSc, PhD (Carleton)*
 D.L. Gibo, *BA (San Fern Vall State Coll), PhD (California)*
 A. Guha, *MSc, PhD (Calcutta)*
 R. Knoechel, *BSc (Cornell), PhD (McGill)*
 G.K. Morris, *BSA (Guelph), MSc, PhD (Cornell)*
 D. O'Day, *BSc, MSc (UBC), PhD (Delaware)*
 P.J. Pointing, *BScF, PhD (Toronto)*
 R.R. Reisz, *BSc, MSc, PhD (McGill)*
 B.I. Roots, *BSc, PhD (London)*
 *W.G. Sprules, *BSc (Queen's), MA, PhD (Princeton)*
 C.J. Whitcombe, *BSc (Queen's)*

Physical Sciences

Professors Emeriti

(Physics, Earth & Planetary Science)

J.T. Wilson, *CC, OBE, BA (Toronto), MA (Cambridge), PhD (Princeton),
 ScD (Cambridge), DSc, DUniv, LLD, FRSC, FRS*

(Survey Science)

L.A. Gale, *BA (Queen's), DTS*

Astronomy

- J.B. Lester, *BA (Northwestern), MSc, PhD (Chicago)*
 *J.R. Percy, *BSc, MA, PhD (Toronto)*

Chemistry

- R. Aroca, *PhD (Moscow)*
 J.M. Deckers, *LSc, DrSc (Louvain)*
 M. Moskovits, *BSc, PhD (Toronto)*
 G.A. Ozin, *BSc (London), DPhil (Oxford)*
 *A.J. Poë, *BA, BSc, MA (Oxford), PhD, DSc, DIC (London), MA (Cambridge)*
 J.C. Poë, *ARCS, MSc, DIC (London)*
 J.K. Reed, *BA (Queen's), MSc (UWO), PhD (Wisconsin)*
 E.A. Robinson, *BSc, PhD, DSc (London)*
 I.W.J. Still, *BSc, PhD (Glasgow)*
 M.A. Winnik, *BA (Yale), PhD (Columbia)*

Computer Science

- A. Fournier, *BS (Insa-Lyon), MSc (Montreal), PhD (Texas)*
 G.S. Graham, *BSc (Toronto), MA (Princeton), PhD (Purdue)*
 E.C.R. Hehner, *BSc (Carleton), MSc, PhD (Toronto)*
 J. Peters, *B Math (Waterloo), MSc (Toronto)*
 *C. Rackoff, *BSc, MSc, PhD (MIT)*
 P. Sermer, *BSc, MSc, PhD (Toronto)*

Earth and Planetary Science

(Geology & Geophysics)

- I.H. Campbell, *BSc (W Australia), DIC (Imperial Coll), PhD (London)*
 J.J. Fawcett, *BSc, PhD (Manchester)*
 D.H. Gorman, *BSc (UNB), PhD (Toronto)*
 H.C. Halls, *BSc (Sheffield), MD (Durham), PhD (Toronto)*
 D.R. Kobluk, *BSc, MSc (McGill), PhD (McMaster)*
 *G.W. Pearce, *BSc, MSc (Memorial), PhD (Toronto)*
 P.-Y. F. Robin, *MSc (Toronto), PhD (MIT)*
 R.M. Stesky, *BSc, MSc (Toronto), PhD (MIT)*

Mathematics

- T. Bloom, *BSc (McGill), MA, PhD (Princeton)*
 P.H.H. Fantham, *MA, DPhil (Oxford)*
 I.R. Graham, *BSc (Toronto), PhD (Princeton)*
 V. Jurdjevic, *BS (Penn State), MS, PhD (Case Western Reserve)*
 *J.E. LeBel, *BSc (McGill), MA, PhD (Toronto)*
 R.A. Mathon, *Dipl Ing (Prague), MSc, PhD (Toronto)*
 F.D. Tall, *AB (Harvard), PhD (Wisconsin)*
 S. Tanny, *BSc (McGill), PhD (MIT)*
 W.A.R. Weiss, *BSc (Saskatchewan), MSc, PhD (Toronto)*

Physics

- R.F. Code, *BSc (Toronto), AM, PhD (Harvard)*
 D.J. Dunlop, *MA, PhD (Toronto)*
 *R.M. Farquhar, *BA, MA, PhD (Toronto) FRSC*
 J.V. Iribarne, *DrChem (Buenos Aires)*
 R.K. Logan, *BSc, PhD (MIT)*
 H.W. Taylor, *BSc, MSc, PhD (Manitoba)*
 H.M. Van Driel, *BSc, MSc, PhD (Toronto)*
 S.S.M. Wong, *BA (Int'l Christian Univ, Tokyo), MS (Purdue), PhD (Rochester)*

Statistics

- *G. Antille, *PhD (Geneva)*
 K.W. Ng, *BSc (Ch U of Hong Kong), MSc (Alberta), PhD (Toronto)*

Survey Science

- R.E. Clipsham, *BSc (Guelph), OLS, PEng*
 J.D. Crane, *BA (Manitoba), LLB (Osgoode), QC*
 S.F. Cushman, *BA (Amherst), MA (Wesleyan), PhD (Ohio)*
 G.R. Douglas, *BSc (Dalhousie)*
 *G. Gracie, *BASc (Toronto), PhD (Illinois), PEng*
 R.C. Gunn, *BASc, MASc (Toronto), MSc (Ohio State), OLS, PEng*
 D.W. Lambden, *BScF (New Brunswick), Dip TCP, FRCS, FIS (Australia), OLS, CLS*
 T.C. Seawright, *BA (WLU), OLS*
 P.A. Steeves, *BSc, MSc (UNB), PEng*
 H. Turner, *BSc (London), MSc (McGill), PhD (Waterloo), OLS*
 J.K. Young, *BEng, MEng, (NSTC), OLS, PEng*

Division of Social Sciences

Anthropology

- G. Crawford, *BA (Toronto), MA, PhD (N Carolina)*
 W. Finlayson, *BA, MA, PhD (Toronto)*
 F.J. Melbye, *BA (Washington), MA (SUNY), PhD (Toronto)*
 A. Mohr, *AB (California), PhD (Wisconsin)*
 L.W. Reinhardt, *BFA (Maryland Inst of Art), MA (Indiana),
 PhD (S Illinois)*
 B.A. Sigmon, *BA (N Carolina), MA, PhD (Wisconsin)*
 *R.M. Vanderburgh, *BA (Radcliffe), MA (Northwestern)*

Commerce

- J. Amernic, *BSc, MBA (Toronto), CA*
 M. Berkowitz, *BSc, MBA, PhD (SUNY)*
 L.J. Brooks, *BCom, MBA (Toronto), CA*
 M.J. Bryant, *BCom (Canterbury), MCom (Auckland), MA (Ohio State), ACA(NZ)*
 *C.K. Clarke, *BBA, MBA (York), CA*
 G.H. Haines, *SB (MIT), MS, PhD (Carnegie IT)*
 M.R. Longworth, *BA (Western), CA*
 D.B. Thornton, *BSc, MBA (Western), CA, PhD (York)*
 R.N. Wolff, *BSc, MBA, DBA, (Indiana)*

Economics

- S.M. Eddie, *BSc (Minnesota), PhD (MIT)*
 J.E. Floyd, *BCom (Saskatchewan), MA, PhD (Chicago)*
 M.A. Fuss, *BSc, MA (Toronto), PhD (Calif)*
 *M.J. Hare, *BCom (Toronto)*
 C. Hsiao, *BA (Nat'l Taiwan U), BPhil (Oxford), MSc PhD (Stanford)*
 J.A. Hynes, *AB (Johns Hopkins)*
 L. Landa, *BA (Singapore), MA (UBC), PhD (VPI)*
 D.L. Landau, *BA (Hebrew U. f Jerusalem), PhD (Chicago)*
 A. McLennan, *BA (Chicago)*
 G. Newman, *BA, MA (SFU)*
 J.E. Pesando, *BA (Harvard), MA (Calif), PhD (Toronto)*
 D. Pokorny, *MA (Charles), PhD (Czech Academy of Sciences)*
 S.A. Rea, *AB, PhD (Harvard)*
 F. Reid, *BA (UBC), MSc (LSE, London), PhD (Queen's)*
 G. Slasor, *BA (Carleton)*
 R. Ware, *BA, MA (Cambridge), PhD (Queen's)*

Geography

- H. Andrews, *BA, MSc (London), DPhil (Sussex)*
 *G.H.K. Gad, *Dr Phil (Nurnberg), PhD (Toronto)*
 N.E. Hardy, *BA (Alberta), MA, PhD (Kansas)*
 D.W. Holdsworth, *BA (Newcastle), MA (UBC)*
 C.J. Houston, *BA, MA, PhD (Toronto)*
 S. Luk, *BA, MPhil. (Hong Kong), PhD (Alberta)*
 T.F. McIlwraith, *BA, MA (Toronto), PhD (Wisconsin)*
 D.S. Munro, *BSc, MSc (McGill), PhD (McMaster)*
 R. Pushchak, *BA (Toronto), MES (York), MA (Princeton)*
 R.R. White, *BA (Oxford), MSc (Penn State), PhD (Bristol)*

Political Science

- J. Barros, *AB, MIA, PhD (Columbia)*
 A. Braun, *BA, MA (Toronto), PhD (LSE, London)*
 M. Chandler, *BA (CCNY), PhD (N Carolina)*
 D.B. Cook, *BA, MA, PhD (Toronto)*
 R.B. Day, *BA, MA (Toronto), PhD (London)*
 P.W. Fox, *BA, MA (Toronto), PhD (LSE, London)*
 J.P. Masciulli, *BA, MA (Toronto)*
 G. Patrick, *BA, MA (Carleton), BEd (Toronto)*
 *F.W. Peers, *BA, BEd (Alberta), MA, PhD (Toronto)*
 D.M. Rayside, *BA (Carleton), AM, PhD (Michigan)*
 P. Solomon, *BA (Harvard), MA, PhD (Columbia)*
 J. Terry, *BA, MA (UBC), PhD (York)*

Sociology

- M. Blute, *BA, MA, PhD (Toronto)*
 H. Boughey, *BA (Columbia), MA, PhD (Princeton)*
 D.F. Campbell, *BA (St Francis Xavier), MA, PhD (C U of America)*
 H. Friedmann, *AB (U Mich), MA, PhD (Harvard)*
 A.R. Gillis, *BA, MA (Dalhousie), PhD (Alberta)*
 B.S. Green, *BA (Brandeis), PhD (York)*
 J.L. Hagan, *BA (Illinois), MA, PhD (Alberta)*
 E.N. Herberg, *BA (Mass.), MSS (Buffalo), MA (OISE, Toronto)*
 *W.E. Kalbach, *BA, MA, PhD (Washington)*
 J.B. Kervin, *BA (UBC), PhD (Johns Hopkins)*
 C.S. Milner, *BA, MA (Wisconsin)*
 L.A. Riznek, *BA (Carleton), MA, PhD (York)*
 E. Silva, *BA (SUNY), MA, PhD (Michigan)*
 J.H. Simpson, *BA (Seattle Pac Coll), BD, ThM (Princeton Th Sem),
 PhD (Stanford)*
 M.W. Spencer, *AB, MA, PhD (California)*
 A.L. Stein, *BA, MA (Cal Berkely), PhD (Cal Santa Barbara)*

Erindale College Council

The Erindale College Council develops academic policy, awards scholarships, bursaries, prizes and other awards in the gift of the College and advises the Principal on all matters concerning the conduct of College affairs. It is composed of the chief academic administrators of the College, all members of the teaching staff, 60 full-time undergraduates, 15 part-time undergraduates, 5 graduate students, the Heads of administrative departments, 5 members of the administrative staff, 2 members of the Erindale alumni and 2 members of the Associates of Erindale.

The Council appoints three standing committees, the Executive Committee, Academic Affairs Committee and College Affairs Committee. Each of these may appoint such sub-committees as are deemed necessary to carry on the policy and decision making of the College. Like the Council itself, the composition of all committees reflects the various interests and concerns of all College members.

Principal's Message

I welcome all of you to Erindale College. In 1981-82 Erindale will celebrate its fifteenth birthday. Since the University of Toronto is more than one hundred and fifty years old, Erindale is one of the youngest colleges in one of the oldest universities in Canada.

This combination of youth and age affords us some unique advantages. We can benefit from the freshness and enthusiasm of youth but at the same time we can enjoy the accumulated wisdom and rich experiences of a well-established and very distinguished university. Since Erindale students are members of the University of Toronto, they may study on both campuses and use the resources in both places.

During the past 15 years, Erindale has grown rapidly. We now have approximately 3,600 full-time and more than 1,200 part-time undergraduates, about 200 faculty, several hundred post-graduate students and teaching assistants, and 225 support and administrative staff.

The College has a fine library which contains 190,000 volumes and offers comfortable accommodation and professional assistance for readers. Erindale's South Building has excellent laboratories, lecture halls, seminar rooms, a bookstore, meeting place, gymnasium, art gallery, medical facilities, professorial offices, and a large cafeteria. The North Building also has classrooms, lounges, academic offices, and a cafeteria.

Recently we increased the residential accommodation on the campus. We now have comfortable modern facilities for 425 students who live in fully furnished, self-contained townhouses suitable for four to six persons.

Students have an active elected government called the Erindale College Students' Union. ECSU sponsors a number of clubs and events devoted to various interests. There is a student newspaper (*Medium II*), and a radio station (*CFRE*). Two athletic directors supervise men's and women's athletics and recreation and the students have an Erindale College Athletics and Recreation Association (ECARA) which provides many activities. There are College sports teams as well as individual activities. Erindale's students are eligible to participate in the University of Toronto's athletic teams.

Erindale College is fortunate to have a remarkably beautiful campus of 224 acres located on the west bank of the Credit River. Although it is situated within the City of Mississauga only 20 miles west of the centre of metropolitan Toronto, the campus has an original natural beauty in its fine arboretum, extensive open spaces, and woodland trails.

The moderate size of the student body interacting with a faculty of about 200 enables the members of the College to get to know one another more readily than they might at a large institution.

We extend a warm welcome to all new and returning students and to visitors who wish to see and enjoy our facilities.

Paul W. Fox
Principal

1

ADMISSION

Admission Requirements

Written Enquiries:

Office of Admissions
University of Toronto
315 Bloor Street West
Toronto, Ontario, Canada
M5S 1A3

Telephone Enquiries:

Office of Admissions (416) 978-2190

Secondary Schools Liaison Office
Erindale College (416) 828-5217

Details of the requirements for admission to the Faculty of Arts and Science are contained in the booklet entitled *A First Look*, copies of which are available on request from the Office of Admissions, and from the Guidance Officer at each secondary school in Ontario.

Further information concerning the requirements for admission is available from the Secondary Schools Liaison Office.

Overseas and out of province applicants should request a copy of the *Undergraduate Admission Bulletin* from the Office of Admissions.

A brief summary of the admission requirements follows:

Candidates applying while enrolled in Ontario Grade 13

For admission to the 1981-82 session, candidates for admission should:

- 1) Complete a minimum of six credits at the level of Grade 13.
- 2) Choose courses offered in as many of the following areas as possible: English/Anglais, French/Français, other languages, Humanities, Mathematics, Sciences, Social Sciences.

For purposes of admission to the Faculty of Arts and Science programmes in 1982 and thereafter, the University has arranged most Grade 13 academic subjects into the following groups:

- Group A — English/Anglais - English as a second language
- Group B — Languages other than English
- Group C — Mathematics
- Group D — Sciences
- Group E — Other Humanities and Social Sciences
- Group F — Other Subjects

Regulations Concerning Groups A through E

Grade 13 students seeking admission in 1982 and thereafter will be expected to present at least six Grade 13 credits, with a minimum overall average of 60%, and distributed as follows:

- a) At least ONE credit from Group A;
- b) Additional Grade 13 credits chosen from at least two of B through E, and including at least ONE credit in either Group B or Group C. Students wishing to qualify under Group C must present at least ONE of Algebra or Calculus or Relations and Functions.
- c) Applicants may NOT present more than:
 - i) three credits in Mathematics;
 - ii) two credits in any other subject.

Regulations Concerning Group F

Group F: Other Subjects:

Accounting
Dramatic Arts
Family Studies
Law
Multidisciplinary Studies
Other Arts Studies
Physical and Health Education
Screen Education
Visual Arts

Provided the *regulations concerning Groups A through E* (above) are met, a Grade 13 student may present ONE credit from Group F for admission purposes.

The following will *not* be accepted in 1982 and subsequently:

Data Processing
Marketing and Merchandising
Other Business Studies
Secretarial Practice
Technological Studies

The minimum average required in an Ontario Grade 13 programme in order to be considered for admission to the University and to the Faculty is 60%. In addition, a student's overall academic record may be taken into consideration. Applications will be considered from candidates whose qualifications do not meet the normal requirements, but such candidates will have to offer written evidence of exceptional ability, or of extenuating circumstances.

Students should choose Grade 13 subjects which will fulfil the prerequisites for university courses they intend to take. Such prerequisites are listed both at the end of this section and after the description of each course later in the Calendar.

Grade 12 Recommendations

Students are urged to include the following subjects in their programme leading to the Secondary School Graduation Diploma: Four credits in each of English/Français and Mathematics, and three in each of French/Anglais/another language other than English, Geography and History, Science.

Admission with Transfer Credit

Candidates who have acceptable standing at other universities, or at other Faculties or Schools of this University including Scarborough College, may be considered for admission with transfer credit provided that the content of those studies is fully equivalent to that of one or more courses offered by the Faculty.

Admission as Non-Matriculants

Candidates at least twenty-one years of age who are Canadian citizens or permanent residents (landed immigrants), and have never completed an Ontario Grade 13 programme, or its equivalent, and have been resident in Ontario for at least one year, may apply for admission as non-matriculants.

They will be asked to present proof of age, and will be required to complete, with high standing, at least one of the Pre-University courses offered by Woodsworth College, at either the St. George or Erindale Campus.

Information concerning the Pre-University courses may be obtained from the Registrars of Erindale College, the Office of Admissions, or from Woodsworth College, 119 St. George Street, Toronto, Ontario, M5S 1A9, (978-4444).

Admission as Special Students

Special Students are those registered in the College but not proceeding towards a degree offered by the Faculty of Arts and Science. Most are either studying here for credit at another institution or, having completed degree studies elsewhere, are taking further courses for purposes of their own.

Further information concerning the requirements for admission is available from the Office of the Registrar, Room 2122, Telephone 828-5331.

Admission of Senior Citizens

Candidates who are at least sixty-five years of age by the first day of the term may apply for admission to the College as part-time Special Students.

They do not have to meet any academic requirements for admission and, when admitted, will be exempt from the payment of academic fees.

Admission "On Condition"

Students who have previously studied at another Faculty or University are occasionally admitted *on condition*. This affects their academic status until the end of the session in which they complete their fourth course in the Faculty. Until that time, a cumulative grade point average of less than 1.70 at the end of *any session* (summer or winter) results in academic suspension for one calendar year; on return, the student will again be "On Condition". At the end of the session in which the fourth course is completed, if the cumulative GPA is from 1.70 to 1.99 the student is placed on academic probation; if 2.00 or more the student is in good standing. Thereafter, the normal status rules apply.

Application Dates

Application should be made as early as possible in the year for which admission is sought. The final dates are:

Summer Session 1981

Summer Evening - April 1, 1981

Summer Day - May 15, 1981

Winter Session 1981-1982

Full-time and Part-time - June 30, 1981

NOTE: Overseas applicants should apply at least six weeks before these dates.

Candidates who use the application forms issued by the Ontario Universities Application Centre are warned that the completed forms must be received by the Centre on the dates listed above; however later applications from candidates in Canada and the U.S.A. will be accepted after these dates *where possible*.

Secondary School Prerequisites

Area of Study		Course	Grade 13 Prerequisite
Astronomy	AST120Y	Survey of Astronomy and Astrophysics	Mathematics R & F, Physics
Chemistry	CHM118Y	General Chemistry	Chemistry, Mathematics R & F and C
	CHM150Y	Basic Concepts of Chemistry	Chemistry Mathematics R & F and C
Computer Science	CSC139H CSC149H	Computer Programming Introduction to Computing	Grade 12 Mathematics Mathematics R & F and C
Earth & Planetary Science	EPS120Y	Introduction to Earth & Planetary Science	Mathematics R & F and Chemistry or Physics or Biology
Mathematics	MAT132Y MAT138Y	Calculus Calculus	Mathematics R & F and C Mathematics A and R & F and C
Physics	PHY118Y PHY140Y	The World of Physics Principles of Physics	Mathematics R & F and C Physics, Mathematics R & F and C
Survey Science	SUR200Y	Introduction to Surveying	Mathematics R & F and C

NOTE: *Languages*: The study of many languages (e.g. French, German, Greek, Italian, Latin, Russian, Spanish) may be begun at the University. Those who have acquired skills in these languages before coming to the University will begin with higher-level courses.

2 PART-TIME STUDIES

Part-Time Studies

Administrative Staff

Division of Part-time Studies

Associate Dean

Registrar

R.W. Van Fossen

L.T. McCormick

Registrar's Office, Room 216, North Building, Telephone 828-5244 or 828-5295.

The Erindale Campus provides instruction for part-time students in most disciplines in the Faculty of Arts and Science.

Special Programme

The B.Sc. programme in Survey Science at Erindale offers courses in the evening for those interested in taking the degree or for those who wish to prepare for the examinations set by the Association of Ontario Land Surveyors. For a complete brochure on Survey Science, write or telephone the Registrar's Office, Division of Part-Time Studies, Erindale College, University of Toronto, Mississauga, Ontario, L5L 1C6.

General Information

Part-time students have full access to all Erindale facilities and may choose to register in both day and evening courses. Three and one-half courses may be taken in the Winter Session, and two courses may be taken in the Summer Session provided no more than one and one-half are taken in any six-week period (term) during the Session.

Winter Evening courses meet once a week for two or three hours. The Summer Evening courses meet twice a week. Summer Day classes are usually held five days a week, either mornings or afternoons, during July and August. There will be a limited Day Session in May and June.

Full details of the courses and programmes available to students in the Summer Session are contained in a publication entitled *Summer Session 1981*, which is available in Room 216, North Building.

Please consult the Course Descriptions in this Calendar for a complete description of all courses available at Erindale College and the St. George Campus Calendar for courses offered there. All courses are available to part-time students, subject to the general regulations for course enrolment.

Admission Requirements

Each *new* student *must* apply for Admission through the Office of Admissions. The admission requirements for part-time studies are the same as those for full-time studies and are described in the Calendar under "Admission Requirements".

Registration Procedures

Summer Session registration forms and *Summer Session 1981* may be picked up in March in Room 216, North Building.

Degree students and *Special* students in Arts and Science with standing in the Faculty do not reapply for admission but follow the normal registration procedures unless they have not attended for two (2) successive sessions. In the latter case, they must apply for re-registration no later than one month before classes begin in the Session they wish to attend.

Special students in Faculties other than Arts and Science should consult their own Faculty for admission and registration procedures.

Counselling

Please contact the Registrar's Office (828-5244) to arrange for an appointment.

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DEGREE REQUIREMENTS

Degrees

The following degrees are offered by the Faculty.

Degree	Abbreviation	Minimum Number Of Courses
Bachelor of Arts (Three-Year)	B.A.	15
Bachelor of Arts (Four-Year)	B.A.	20
Bachelor of Science (Three-Year)	B.Sc.	15
Bachelor of Science (Four-Year)	B.Sc.	20
Bachelor of Commerce	B.Com.	23

Further details are contained in the section on "Degree Requirements".

Degree Students — Those students registered in the College who are proceeding to the B.A., B.Sc., or B.Com. Degree.

Special Students — Those students registered in the College who are not proceeding to a degree in this Faculty.

Choosing Courses

1. Each student may plan his own programme, selecting from among all courses offered, subject to the following rules:
 - (a) The degree and programme requirements, distribution requirements and other regulations set out in the Calendar and its supplements must be satisfied.
 - (b) All prerequisite, corequisite and exclusion requirements must be met.
 - (c) No more than six 100-series courses may be taken for degree credit.
2. Each student may proceed towards the degree at a rate of his own choosing, except as provided below:
 - (a) A full-time student in the Winter Session normally takes five courses and the maximum is six. Students in the Commerce and Finance Programme normally take five courses in the first Winter Session and six in the succeeding Winter Sessions.
 - (b) No student may take more than six courses in any one term in the Winter Session. "A" and "B" courses count double in computing term course loads.
 - (c) The maximum in the Summer Session is two courses, with a course load of not more than three in either term. Note particularly that two "B" courses (or one "B" and two "S" courses) may not be taken.

- (d) A student who is on Academic Probation may take no more than five courses in the Winter Session.
3. All courses will be for degree credit unless:
 - (a) The course is a 100-series course and the maximum number of such courses allowable for degree credit has already been completed, or
 - (b) Advance permission has been given by petition for courses to be taken as "extra courses". Courses already completed may not be designated as "extra" retroactively.
4. Students who do not intend to complete a course or courses must notify their Registrar promptly, in writing, before the final date to withdraw. Every year some students obtain a mark of "0" on their record because they did not notify their Registrar of their intention to delete a course.
5. Students may not repeat any course in which they have already obtained standing except for a 100-series course where a specific grade higher than "D" is required for entry to a limited-enrolment Programme. Under these circumstances a course may be repeated *once* as an "extra" course which will have no effect on the student's status or Grade-Point Average. There are no supplemental examinations or provisions to rewrite an examination to "upgrade" a mark.
6. Students who have taken or wish to take courses outside this Faculty should refer to the sections concerning courses of other Divisions and other Universities.

Programmes

All students entering Erindale in or after the Summer Session of 1980 must register in a Programme or Programmes at the beginning of the session following that in which they complete their fourth course for degree credit. If admitted with transfer credit for four courses or more, this must be done immediately on admission. Such students also may (but are not required to) register in one three-course Minor Programme. Students registered at Erindale before the Summer Session of 1980 may complete a Programme or Programmes, but are not required to do so; if they do so choose, they need not complete the Distribution Requirement. (See below)

Programmes previously known as "Minor" have been renamed "Major" Programmes. The Minor Programmes in this Calendar are new this session and are optional for all students; one of them may be completed in addition to Major and/or Specialist Programmes. Further information on Programmes appears on Pages 53-83.

Distribution Requirement

All students entering Erindale in or after the Summer Session of 1980 must complete a full course equivalent in each of the following Divisions:

Humanities

Classics
Drama
East Asian Studies
English
Fine Art
French
German
History
Italian
Linguistics
Philosophy
Religious Studies
Slavic Languages and Literature
Spanish

Social Sciences

Anthropology*
Commerce
Economics
Geography*
Political Science
Sociology

* See Courses in Science
for B.Sc. degree
(see page 31)

Sciences

Life Sciences
Biology
Psychology

Physical Sciences

Astronomy
Chemistry
Computer Science
Earth and Planetary Science
Mathematics
Physics
Statistics
Survey Science

NOTE: "INE" courses do not qualify for any of these categories

Responsibilities of Students

While Departmental counsellors and the Registrars are always available to give advice and guidance, it must be clearly understood that the ultimate responsibility for completeness and correctness of course selection, for compliance with Prerequisite, Corequisite requirements, etc., for completion of Programme details, for proper selection of the Distribution Requirement and for observance of regulations, deadlines, etc., *rests with the student*. It is the student's responsibility to seek guidance if he is in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, Programme or Degree requirement.

Courses

The word "course" is used in two senses. In reference to a single course (such as "standing in a course" etc.) the word may be taken to refer equally to a full course or half course. In reference to a given number of courses (such as the requirement of obtaining standing in at least fifteen courses for a three-year degree) the word refers to a number of full courses or the equivalent number in full and half courses. To "pass a course" or "obtain standing in a course" normally means to obtain a mark of 50 or more in that course ("Credit" in "Credit/No Credit" courses). Note that a grade of "C-" is required in a certain number of 300- and 400-series courses before a degree may be granted and that "Pass" or "Credit" does not count as a C- for this purpose.

Prerequisites, Corequisites, etc.

Exclusion: A student may not enrol in a course which lists, as an exclusion, one which he is also taking or in which he has already obtained standing.

Prerequisite: A course (or other qualification) required as preparation for entry to another course. If a student considers that he has equivalent preparation, he may ask the Department concerned to waive the stated prerequisite.

Corequisite: A requirement to be undertaken concurrently with another course. The corequisite will be waived if a student has previously obtained standing in it or if the Department consents.

Recommended Preparation: Background material or courses which may enhance a student's understanding of a course.

Students are responsible for fulfilling prerequisites and corequisites and for observance of exclusions. Failure to meet these requirements may result in academic difficulties or, in the case of exclusions, refusal of degree credit. If a student withdraws from a course he must also withdraw from any course for which it is a corequisite unless the Department giving the latter course agrees to waiver of corequisite.

Courses Offered on the St. George Campus

Subject to written approval from the Erindale Discipline Representative and the department concerned at St. George, students registered at Erindale who have completed 14 or more credits may take several courses on the St. George campus. Others are restricted to two or fewer. Students should consult the *Timetable and Registration Information* and their Registrar for details.

Courses of Other Divisions

Certain courses offered in other Faculties and Schools of the University may be appropriate for the programme of students in Arts and Science. After consulting an academic adviser, students should petition through the Office of the Registrar, if possible well before the beginning of the course(s) concerned. Permission to take such courses for degree credit will be granted when the student can establish that his particular aims are consistent with an Arts and Science programme but cannot be met by courses offered within the Faculty of Arts and Science. Acceptance of petitions to take graduate courses is further subject to the requirements of the School of Graduate Studies.

Courses of Other Universities (Letters of Permission)

A student who has obtained standing in at least a half-course in this Faculty and who finds that he will be living, temporarily, at such a distance from any of the three campuses that it will be impossible for him to attend classes, may request a Letter of Permission to register at another University for a maximum of five courses, depending on the number and level of the courses accepted on admission and completed in this Faculty. Degree credit for only one 300- or 400-series course will be given for work done while registered outside this Faculty. Letters of Permission will not be issued to students who are on "Condition", on Academic Probation or Suspended from Registration in the Faculty.

A student seeking re-registration in the Faculty who has studied at another post-secondary institution since his last registration here must submit an official transcript with his application for re-registration, whether or not he intends to seek transfer credit. His status, including his eligibility to resume his studies in the Faculty, will be assessed including the results obtained in the courses taken elsewhere.

Calculating Course Load

For the purpose of calculating course loads, the following table should be used:

Suffix	Load per Session	Load per Term
Y	1	1
H	$\frac{1}{2}$	$\frac{1}{2}$
A, B	1	2
F, S	$\frac{1}{2}$	1

As explained in the section on *Key to Course Descriptions*, the suffixes, A, B, F, S appear only in the *Timetable and Registration Information* and relate to the specific scheduling of the courses.

Degree Requirements

Three-Year Degree (B.A. or B.Sc.)

To qualify for a three-year degree, a student must

- Obtain standing in at least 15 courses, no more than six of which are 100-series.
- Obtain a grade of C- or better in each of three 300- or 400-series courses, ("Credit" in a "CR/Fail" course does not fulfill this requirement).
- Complete the requirements of a Major Programme or one three year Approved Area of Study unless first registered in this Faculty before the Summer Session of 1980.
- Obtain a cumulative GPA of 1.50 or more, and
- For the B.Sc. degree, take at least six 200- or higher series courses in Science, as defined below.
- Have successfully completed a full course equivalent from each of the following Divisions: Humanities, Science, Social Science unless first registered in this Faculty before the Summer Session of 1980.

Four-Year Degree (B.A. or B.Sc.)

To qualify for a four-year degree, a student must

- Obtain standing in at least 20 courses, no more than six of which are 100-series,
- Obtain a grade of C- or better in each of six 300- or 400-series courses, ("Credit" in a "CR/Fail" course does not fulfill this requirement).
- Complete the requirements of a Specialist Programme or two Major Programmes, or one four year Approved Area of Study, or two three year Approved Area of Study, unless first registered in this Faculty before the Summer Session of 1980.

- (d) Obtain a cumulative GPA of 1.50 or more, and
- (e) Have successfully completed a full course equivalent from each of the following Divisions: Humanities, Science, Social Science unless first registered in this Faculty before the Summer Session of 1980.
- (g) For the B.Sc. degree, take at least nine 200- or higher series courses in Science, as defined below.

Courses in Science for the B.Sc. Degree

The following are considered to be courses in Science for the purpose of determining eligibility for the B.Sc. degree and the Distribution Requirement:

ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H
 APM; AST (except AST200H)
 BIO; CHM; CSC; ECO220Y; EPS
 GGR201H, 202H, 206H, 207H, 212H, 214H, 280H, 300H, 301H, 302H, 304H, 305H, 373H, 374H, 376H, 379H, 381H, 383H, 491Y
 MAT; PHY; PSY; STA; SUR (except SUR250H, 350H, 360H, 430H, 450H)

Bachelor of Commerce Degree

The programme in Commerce and Finance begins formally when a student has obtained four credits which include COM100Y, ECO100Y and MAT132Y. The cumulative GPA in all courses completed and the marks obtained in COM100Y and ECO100Y will be taken into consideration in admitting students to the Commerce Programme.

A student shall be qualified for a Bachelor of Commerce Degree when he has:

1. Completed the requirements of the Commerce and Finance programme, including no more than six 100- series courses;
2. A grade of "C-" or higher in each of at least six 300- or 400- series courses, ("Credit" in a "Credit/Fail" course does not fulfil this requirement.)
3. A cumulative GPA of 1.50 or more.
4. Successfully completed at least one full course equivalent from each of the following Divisions: Humanities, Science, Social Science unless first registered in this Faculty before the Summer Session of 1980.

Choice of a Degree

A student may choose to have his degree conferred after having completed the requirements for either the three-year or four-year degree. A student who chooses to receive a three-year degree may continue his studies; completion of the four-year degree requirements will be recorded but he will not graduate a second time. A three-year degree leads only to a four-year degree in the same field, i.e. a three-year B.A. leads only to a four-year B.A. etc., though five courses taken towards a degree in one field may, on petition, be counted towards a degree in a different field.

List of Abbreviations and Symbols

ANT — Anthropology	HIS — History
APM — Applied Mathematics	INE — Interdisciplinary Course (Erindale)
AST — Astronomy	ITA — Italian
BCH — Biochemistry	LAT — Latin
BIO — Biology	LIN — Linguistics
CHM — Chemistry	MAT — Mathematics
CLA — Classics	PHL — Philosophy
COM — Commerce	PHY — Physics
CSC — Computer Science	POL — Political Science
DRM — Drama	PSY — Psychology
EAS — East Asian Studies	REL — Religious Studies
ECO — Economics	SLA — Slavic Languages and Literatures
EPS — Earth and Planetary Science	SOC — Sociology
ENG — English	SPA — Spanish
FAH — Fine Art History	STA — Statistics
FAS — Fine Art Studio	SUR — Survey Science
FRE — French	WDW — Woodsworth College course
GER — German	
GGR — Geography	
GLG — Geology	
GLL — Greek and Latin Literature	
GRH — Greek and Roman History	
GRK — Greek	

Course Suffixes

A	— full course given in the <i>first</i> term of a session
B	— full course given in the <i>second</i> term of a session
F	— half-course given in the <i>first</i> term of a session
H	— half-course in Calendar; in the <i>Timetable and Registration Information</i> a half-course extending over <i>both</i> terms of a session
S	— half-course given in the <i>second</i> term of a session
Y	— full course extending over <i>both</i> terms of a session
Z	— course for which no credit is given

Types of Instruction

L	— Lectures
S	— Seminars
P	— Practical work in laboratories or studios
T	— Tutorials

In the Winter Session the normal period of instruction in full courses ("Y" in the Calendar) is 26 weeks; for half-courses ("H" in the Calendar) it is 13 weeks, although there are some half-courses which continue for 26 weeks. The numbers preceding the instruction codes opposite the course number and title indicate the total number of hours of instruction given in the course.

Symbols Used in Course Description and Programme Requirements

PI	Permission of instructor required to enrol
(I)	Open to first-year students (shown in margin of course descriptions)
G	Course available only on the St. George Campus
	Comma, semi-colon, & (all mean "and")
	Solidus symbol - / (means "or")

On Statement of Results or Transcript

AEG	Aegrotat standing on the basis of term work and medical evidence
SDF	Standing deferred — completion of course delayed for medical or similar reasons
WDR	Late withdrawal with permission
XTR	Extra course, not for degree credit

4 REGULATIONS

Registration, Enrolment, Withdrawal

Registration refers to the process of establishing membership in a College of this Faculty for the purpose of attending courses and following a Programme of Study.

Enrolment is a separate procedure and refers to a student's formal undertaking to take a specific course or courses. Registration and enrolment procedures are detailed in the *Timetable and Registration Information*.

For the last dates for enrolment in and withdrawal from courses, students should consult the "Sessional Dates" at the front of this Calendar and in the "*Timetable and Registration Information*". Students whose circumstances are unusual may petition through the Registrar to seek the approval of the Committee on Standing. Permission to register late in the Faculty, and to enrol in courses after the normal date, may be refused at any time.

Any student allowed to register one day after the end of the registration period will be charged a late registration fee of \$10.00; for each day thereafter the fee is an additional \$1.00.

All newly-admitted degree students are required to write an **English Proficiency Test** at the time of their first registration in the Faculty. Those who fail on the first attempt will be given opportunities to re-write the test for a fee of \$10.00. Those who do not pass within twelve months will be expected to arrange with their Registrar for appropriate counselling and assistance. Students who do not pass the English Proficiency Test within twenty-four months of their first registration in the Faculty will be *refused further registration* until such time as they pass the test.

Students who withdraw from a course or courses before the last date are entitled to a fees adjustment, the amount of which is determined by the date *written notification* of withdrawal is *received* by the Registrar. Every student who is still enrolled in a course after the final date to withdraw will receive a grade for that course, even if he stopped attending classes or did not write the examination. Full information on withdrawal procedures and fees adjustments may be obtained from the Registrars.

Students who find it necessary to withdraw altogether from the University, must notify their Registrar before the last day to withdraw listed in the "Sessional Dates." Merely ceasing to attend classes does not constitute withdrawal. Before any refund is authorized, they must:

- Pay any outstanding fees.
- Return any books to the Library and pay any outstanding fines.
- Surrender any Book Store charge cards and pay outstanding accounts.
- Surrender their Student Cards.
- Vacate any laboratory or athletic lockers and return any equipment in their possession.

Term Work

All term work must be submitted *on or before the last day of classes* in the course concerned, unless an earlier date is specified by the instructor. Students who for reasons beyond their control wish to seek an extension of this deadline must consult their Registrar and petition if necessary (see "Aegrotat Consideration", page 42).

In order to avoid an undue concentration of work near the end of term, a wise student will organize his time and keep term work up to date throughout the session.

Transfer of Registration Between Colleges

Students who wish to transfer to another College must request a transfer by petition through their Registrar. Last date to submit such a petition is July 1.

Standing in Courses

Students are assigned a grade in each course as follows:

Percentage	Grade	Value	Grade Definitions
90-100	A+	4.3	Excellent
85-89	A	4.0	
80-84	A-	3.7	
77-79	B+	3.3	Good
73-76	B	3.0	
70-72	B-	2.7	
67-69	C+	2.3	Adequate
63-66	C	2.0	
60-62	C-	1.7	
57-59	D+	1.3	Marginal
53-56	D	1.0	
50-52	D-	0.7	
Credit/Fail:	CR*	0.0	No Value
35-49	E	0.3	Inadequate
0-34	F	0.0	Wholly Inadequate
Credit/Fail:	F	0.0	No Value

*"Pass" or "Credit" does not count as "C-" for purpose of degree requirements, but transfer credits and Aegrotat standing in 300/400 series courses do count as such.

Grades of "E" and "F" are both *failures*. There are no supplemental examination privileges in the Faculty.

Other notations which do not have grade point values are:

AEG AEGROTAT STANDING — on the basis of term work and medical evidence. (Rarely granted)

SDF (*Previously SD*) STANDING DEFERRED — completion of course delayed for medical or similar reasons.

WDR (*Previously W*) LATE WITHDRAWAL — without academic penalty*.

(These three may be authorized only by the Committee on Standing by Petition.)

XTR EXTRA COURSE — not for degree credit.

*Note: The petition in this case is not for permission to withdraw, but is for removal of the academic penalty in cases where the withdrawal has been caused by circumstances beyond the student's control, arising after the last date for normal withdrawal.

Grading Regulations

The Committee on Academic Standards administers the Grading Regulations including approved methods of evaluation. It also reviews course grades submitted by Departments. The Faculty through the Committee on Academic Standards has final responsibility for assigning the official course grades.

Each Chairman shall appoint a review committee under his chairmanship or that of his designate to review grades submitted by instructors. The committee may ask for clarification by the instructor(s) of any anomalous results, distributions, or disparity between sections of the same courses. Both the departmental review committee, through the chairman, and the Faculty review committee, through the Dean, have the right to monitor and review marks and, in consultation with the examiner or instructor of the course, to adjust marks where there is an obvious and unexplained discrepancy between the marks submitted and the perceived standards of the Faculty. Final marks are official, and may be communicated to the student, only after the review procedure has taken place. Students are informed officially of their results by the Secretary of the Faculty.

As early as possible in each course and no later than the last date to add or drop the course, the instructor shall announce in a regularly scheduled class the methods by which student performance will be evaluated and the relative weight of these methods (including any discretionary factor). It is understood that these methods shall be in accord with applicable University and Faculty policies. Grades, as an expression of the instructor's best judgment of each student's overall performance in a course, will not be determined by any system of quotas.

Once the weight for different assessments within the method of evaluation to be used is explicitly given, it may not be changed without the consent of the majority of the students taking the course who are present and voting at a regularly scheduled meeting of the class. No change may take place after the last date to withdraw without academic penalty unless there is unanimous consent of all students taking the course who are present and voting at the first regularly scheduled meeting of the class subsequent to the regularly scheduled meeting of the class at which the issue is first raised.

All written work carried out for evaluation purposes should be returned to the students with such detailed comment as the instructor deems appropriate, and time for discussion of it made available. The instructor is required to keep for six months beyond the end of term, term work that has not been claimed.

Both essays (or equivalent work) and examinations (including term examinations) should normally be required for standing in courses leading to a degree. No term test having a weight greater than 25% of the final mark in a course may be held in the last two weeks of classes at

the end of any term. In courses where only one form of evaluation is used, a single piece of work should not normally count for all of the final mark.

A Faculty final examination common to all sections of the course and counting for between one-third and two-thirds of the final mark must be held in each 100-series course unless exemption has been granted by the Committee on Academic Standards. In 200-, 300- and 400-series courses, Departments will decide whether or not an examination is appropriate and report to the Committee on Academic Standards. The relative value of each part of a written examination will be indicated on the examination paper. In multi-sectioned courses which have a final examination the ratio of term mark to examination mark will be the same for all sections.

Each instructor must submit to his Chairman with his marks, a statement of the relative weighting of the various components of the final mark, including the extent to which group evaluation, self evaluation and multiple-choice examinations were used. Self evaluation and group evaluation, where permitted, must not have a combined weight of more than 50% in the determination of the final grade in any course. Group evaluation will be allowed only when each member of the group has consented to this form of evaluation and permission has been obtained from the Committee on Academic Standards.

Averaging and Status

Grade Point Average

The Grade Point Average (GPA) is the weighted sum of the grade points earned, divided by the number of courses in which grade points were earned. A half-course will carry half the weight of a full course. No "Credit" in a "Credit/No Credit" course will be included. However, courses noted "AEG" or "PASS" or "Credit" are not included in the average, nor are transfer credits, courses taken on a Letter of Permission, or courses designated as "extra".

Two types of averages are used. The sessional GPA is based on the courses taken in a single session (summer or winter) while the cumulative GPA takes into account all courses taken for degree credit in the Faculty beginning with the 1976-77 Winter Session. Both the sessional and cumulative GPA are used at the end of each session (summer or winter) in assessing academic status and in determining the rate of progress toward the degree.

The sessional GPA will be identical to the cumulative GPA for purposes of assessing a student's academic status in the first session (summer or winter) in which that student is subject to the Faculty's GPA regulations.

The computation of an average will be delayed if "Standing Deferred" has been granted in any course.

Course Size and Average

Beginning with the 1978-79 Winter Session, the size of each course and the average mark are recorded. Course size is indicated for all courses. Course average is indicated for courses with 12 students or more, and is expressed as a letter grade. The symbol "NA" indicates that the course size or average could not be calculated.

Academic Status

NOTE: Regulations Nos. 1, 2 and 3 apply to both Degree and Special students who have attempted at least four courses in the Faculty.

1. A student shall be on *academic probation* who
 - (a) Has a cumulative GPA of less than 1.50 or
 - (b) Returns from suspension.

2. A student who, at the end of any session (Winter or Summer) during which he is on probation
 - (a) Has a cumulative GPA of 1.50 or more shall come off probation
 - (b) Has a cumulative GPA of less than 1.50 but a sessional GPA of 1.70 or more shall continue on probation.
 - (c) Has a cumulative GPA of less than 1.50 and a sessional GPA of less than 1.70 shall be *suspended for one calendar year* unless he has been suspended previously, in which case he shall be suspended for *three* years.
3. A student who, having been suspended for three years, is again liable for suspension shall be *refused further registration* in the Faculty.
4. A student admitted *on condition* is subject to special conditions until the end of the session in which he completes his fourth course in the Faculty. (See page 23).

NOTE: There are two sessions (Summer and Winter) in each calendar year and status is assessed following each of them.

Students who are neither On Probation, Suspended nor Refused Further Registration are described as *In Good Standing*.

A student's status as established under the regulations in effect before the GPA system was adopted in September 1976, will remain unchanged until he has completed one full session (Summer or Winter) after September 1976, at which time it will be re-assessed in terms of the GPA, provided that at least four courses in total have been attempted.

Courses attempted are those in which a student remains formally enrolled on the last date for withdrawal, unless the academic penalty normally attached to a subsequent withdrawal is removed by petition.

A student who is on Academic Probation may take no more than five courses in the Winter Session.

Faculty Final Examinations

Final examinations are held at the end of both terms in each session. Students who make personal commitments during the examination period do so at their own risk. No special consideration will be given and no special arrangements made in the event of conflicts. Information regarding dates and times of examinations will not be given by telephone.

Rules for the Conduct of Examinations

- 1) No persons will be allowed in an examination room during an examination except the candidates concerned and those supervising the examination.
- 2) Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
- 3) Candidates shall bring their signed student registration cards and place them in a conspicuous place on their desks.
- 4) Bags and books shall be deposited in areas designated by the Presiding Officer and are not to be taken to the examination desk or table. Students may place their purses on the floor under their chairs.
- 5) The Chief Presiding Officer has authority to assign seats.
- 6) Candidates shall not communicate with one another in any manner whatever, during the examination.

- 7) No materials shall be brought into the room or used at an examination except those authorized by the Chief Presiding Officer or Examiner.
- 8) Candidates who bring any unauthorized material into an examination room or who assist, or obtain assistance from other candidates or from any unauthorized source, may not be permitted to write the remaining part of the examination or any subsequent examinations. They are also liable to penalties under the Code of Behaviour, including the loss of academic credit and expulsion.
- 9) Candidates will not be permitted to enter an examination room later than fifteen minutes after the commencement of the examination, nor to leave except under supervision until at least half an hour after the examination has commenced.
- 10) In writing out their answers, candidates shall write on the ruled pages only, and shall number their answers to correspond to the questions. On the outside of each book, they shall write their student number, their name unless instructed otherwise, and the course code of the examination, and shall number each book, indicating the total number of books used. Rough work may be done on unruled pages. All written work and unused examination answer books must be handed in.
- 11) Candidates shall remain seated at their desks during the final ten minutes of each examination.
- 12) At the conclusion of the examination, all writing within the answer books shall cease, and the Chief Presiding Officer may refuse to accept the papers of candidates who fail to observe this requirement.
- 13) Examination books and other material issued for the examination shall not be removed from the examination room except by authority of the Chief Presiding Officer.
- 14) Smoking in the examination room is not permitted.

Outside Centre Fee

Each student who is granted permission to write an examination at a centre outside of Toronto must submit with his application a fee of \$15.00 for each paper to be written. Such permission is granted only in the most extreme circumstances.

Student Records

The following is an implementation of the policy on Access to Student Records maintained by undergraduate academic Divisions of the University, the full text of which is available at the Faculty Office, Sidney Smith Hall and the Registrar's Office.

Access to Student Academic Records

Academic Records of students are ultimately the property of the university. The policy ensures that a student's right to privacy in relation to his academic records is safeguarded as far as both internal university access and external public access is concerned.

Definition of Student Academic Records

Student Academic Records are information contained in an original transcript, in electronically stored records, and in the "official student academic record" as maintained within an academic division. The following table classifies the information contained in the "official student academic record" and shows the office at which students may request to examine it.

Type of Documents or Information	Office at which Documents may be examined
(a) Registration and Fees Forms	College Registrar's Office
(b) Results for each course and year	Faculty Office
(c) Applications for Admission and supporting documents	Office of Admissions Students may not examine nor have copies made of those documents that relate to their admission to the academic division concerned.)
(d) Results of any petitions and appeals	Faculty Office/Erindale College Registrar's Office
(e) Medical Information relevant to a student's academic performance which has been furnished at the request of or with the consent of the student concerned. Note that access to this type of material shall only be granted to members of the teaching and administrative staff with the prior expressed or implied consent of the student and, if applicable, in the case of a medical assessment, the originator (physician, etc.,) of such.	Erindale College Registrar's Office

Access

(a) *Access by a student:*

A student may examine and have copies made of his academic record as defined above, with the exception of that portion of the record which deals with his application for admission to the academic division concerned. A student's request to examine any part of his "official student academic record" shall be made in writing and shall be complied with by the responsible authorities within thirty days of receipt of the request. A student may challenge the accuracy of his academic record with the exception of the materials specifically excluded in section (c) above and to have his official student academic record supplemented with comments so long as the sources of such comments are identified and the official student academic record remains securely within the custody of the academic division. Reference to such comments would not necessarily appear on official academic reports such as the transcript or the Statement of Results.

(b) *Access by University Staff:*

Members of the teaching and administrative staff of the University shall have access to relevant portions of a student's academic records in the performance of their duties.

(c) *Access by University of Toronto Student Organizations:*

Student organizations in the University of Toronto may have access to all information available freely to persons outside the university (see below) and to the residence address and telephone number of the student.

(d) Access by others:

- (i) By the act of registration, a student gives implicit consent for a minimal amount of information to be made freely available to all inquirers:
 - the academic division(s) and the session(s) in which a student is or has been registered,
 - degree(s) received and date(s) of convocation.
- (ii) Any other information contained in the academic record of a student may be released to other persons and agencies only with the student's prior expressed written consent, or on the presentation of a court order, or in accordance with the requirements of professional licencing or certification bodies, or otherwise under compulsion of law. A record shall be kept of permission granted to any persons or agencies outside the university for access to a student's academic record.
- (iii) General material drawn from academic records not disclosing the identities of students may be released for research and informational purposes.

Custody Of Student Academic Records

Academic records are normally under the custodial responsibility of the academic divisions. Fifty years after a student has ceased to be registered, all records become the responsibility of the University Archivist and become open to researchers authorized by the University of Toronto.

Personal Information

Personal information provided at the time of admission is verified and brought up to date by the College Registrar at the time of registration in subsequent sessions. This information is a vital part of the student's official University record and is used to issue Statements of Results, transcripts, graduation information, diplomas and other official documents. The University is also required by law to collect certain information for the Federal and Provincial Governments; this is reported only in aggregate form and is considered confidential by the University.

Any change in the following must therefore be reported immediately to the College Registrar:

1. Legal name
2. Permanent or home address and telephone number
3. Sessional address and telephone number
4. Social Insurance Number
5. Citizenship status in Canada
6. Marital Status

Student Card

The student card is a wallet-sized card used for identification purposes within the University, such as evidence of registration in the Faculty and in a particular College, participation in student activities, Athletic Association privileges, and identification at Faculty examinations. A separate card is issued by the University Library.

The loss of the student card must be reported promptly to the College Registrar, and the card must be surrendered if a student withdraws from the University or transfers to another College or Faculty.

Checking of Marks*Courses with Faculty Final Examinations:*

After the issue of final results and within six months of the final examination period, a student may request from the Registrar's Office a reproduction of his final examination for a fee of \$5.00. If, upon inspection of this, he wishes to have the paper re-read, he must set down his reasons in detail and petition through his Registrar within six months after the final examination period. If the mark is changed as a result of this petition, the \$5.00 fee will be refunded.

Students should note that when a course is failed, the examination must be re-read before the marks are reported, and instructors may not subsequently re-read any final examinations except on the authority of a petition, *which will be granted only when it contains specific instances of disagreement with the existing grading and an indication of the grounds for such disagreement.*

All courses:

Within the six month period a student may request a clerical check of the calculation of the marks in a course, upon payment of a fee of \$5.00 per course. If an error is discovered, the fee for checking that course will be refunded.

Note: Students must accept the fact that any recheck or re-reading may lead to a lowering of the mark, or to a raising of the mark, or to no change.

Transcripts

The transcript of a student's record reports the standing in all courses attempted, along with course size and course average, information about the student's academic status including record of suspension and refusal of further registration, completion of degree requirements and of a Programme.

Course results are added to each student's record at the end of the session. Transcripts issued during the second term do not include "A" and "F" courses completed in the first term.

Individual courses from which a student withdraws within the normal time limit are not shown. However, the date of withdrawal from a session (i.e. withdrawal from the last course in which a student was enrolled) is recorded. Therefore, when a student taking only a single course withdraws from it, the date is recorded since it constitutes withdrawal from a session.

Copies of the transcript will be issued at the student's request, subject to reasonable notice. Requests should be submitted in person or by writing the Faculty of Arts and Science, Sidney Smith Hall, 100 St. George St., Toronto M5S 1A1. There is no charge for transcripts issued within the University. A fee of \$1.50 (including tax) for the first copy, plus \$0.50 (including tax) for each additional copy ordered at the same time, will be charged for transcripts to all other destinations. Payment **MUST** accompany such requests. Transcripts issued directly to students do not bear the official seal of the Faculty. The Faculty Office cannot be responsible for transcripts lost or delayed in the mail. Transcripts are not issued for students who have outstanding financial obligations with the University.

Petitions

Students should always consult their Registrar for guidance if anything happens which interferes with continuing or completing their courses, or which appears to be contrary to rules, regulations and deadlines. Students are responsible for knowing the rules and regulations in the Calendar and the *Timetable and Registration Information*; failure to observe them may result in academic and/or financial penalties. However, if a student has genuine difficulties in complying with a particular regulation, he may petition that it be waived or varied.

Petitions are initiated in the Registrar's Office and are considered in confidence by or on behalf of the Committee on Standing. This Committee is charged with interpreting and administering the regulations of the Faculty and may, in special circumstances, grant exceptions and attach conditions. The onus is on the petitioner to demonstrate the validity of his request; the Committee may refuse any petition by deciding that the grounds advanced do not support the request made. *The authority of the Committee does not extend to the pedagogical relationship between instructor and student.*

Appeals

Decisions of the Committee may be appealed to the Academic Appeals Board of the Faculty and the Governing Council within six months of the date of the decision being appealed. Particulars of this procedure may be obtained from the Registrar.

Aegrotat Consideration

If the ability of a student to complete a course is affected by illness or domestic problems *beyond his control*, a petition may be made for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work already done and the steps, if any, that must be taken in order to complete the course.

Such petitions must be filed with the student's Registrar on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the student was examined at the time of the illness, or other evidence to support the petition. If necessary, the medical certificate or other supporting evidence may follow, but the petition must be submitted before the examination period ends, and late petitions will be rejected.

Students will not be excused any part of the work of a course but as a result of the petition may be allowed additional time for its completion, or an alternative examination etc.

Office of the University Ombudsman

The University Ombudsman investigates grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University - student, faculty or administrative staff. He assists in any way he can in resolving grievances or complaints, and can recommend changes in academic or administrative decisions where this seems justified. In handling a grievance or complaint, he has access to all relevant files and information, and to all appropriate University officials.

The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters dealt with by the Ombudsman are handled in a strictly confidential manner unless the individual involved approves otherwise. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council.

For information, advice or assistance, contact the Office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874). Members of the University at the Erindale and Scarborough Campuses may arrange to meet with the Ombudsman at their respective campuses or at the St. George Campus, whichever is more convenient.

Discipline

Code of Behaviour in Academic Matters

The Governing Council of the University of Toronto has approved a Code of Behaviour regarding academic discipline applying to students and members of the teaching staff of the University. The full text of the Code is available from the Faculty Office and the Registrar's Office. The Code is enforced by the University Disciplinary Tribunal.

Academic Offences

In order to protect the integrity of the teaching, learning and evaluation processes of the University it shall be an offence for any member knowingly

- 1) to use or possess unauthorized assistance in any academic examination or term test or to use unauthorized assistance in any other form of academic work

- 2) to represent as that of the member in any academic work submitted for credit in a course or programme of study, any idea or expression of an idea of another
- 3) to submit for credit in any course or programme of study, without the knowledge and approval of the member to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course or programme of study in the University or elsewhere
- 4) to submit for credit in any course or programme of study any academic work containing a purported statement of fact or reference to a source which has been concocted
- 5) to forge or in any other way falsify any academic record of the University or to forge or in any other way falsify any academic record of another institution used for the purposes of the University of Toronto, or to utter or make use of any such forged or falsified records
- 6) to remove books or other library material from a University library without proper authorization, to wilfully mutilate library material or misplace it, or in any other way wilfully to deprive other members of the University of the opportunity to have access to library resources.

Sanctions

The following sanctions, listed in order of increasing severity, may be imposed by the Tribunal upon conviction of any student of any offence:

- a) Caution
- b) Censure
- c) Assignment of a mark of zero in academic work submitted for credit
- d) Failure in or cancellation of credit for any course or other academic work in respect of which any offence was committed
- e) Suspension from attendance in all courses in which the student is registered at the time the offence was committed for any period less than twelve months from the date on which the offence was committed, and loss of credit for any course or courses which have not been completed or in which no grade or final evaluation has been registered at the time the offence was committed
- f) Suspension from the University for such period as may be determined by the Tribunal;
- g) Expulsion from the University.

NOTE: Withdrawal from a course will not preclude proceedings in respect of academic offences committed in the course, and the right to withdraw may be refused where an academic offence is alleged.

5 FEES

Tuition Fees

Tuition fees are established by the Governing Council and set out in detail in the *Schedule of Fees*. Tuition fees normally consist of two parts: academic fees (including instruction and library) and incidental fees (including Hart House, Health Service, athletics, and student organizations). Additional fees may also be assessed to cover such items as instruments, microscopes, screening charges, field trips and special laboratory charges.

Fees are subject to change at any time by approval of the Governing Council.

The following information is intended only as a general guide and may be superseded by that in the Schedule of Fees, which should be consulted for accurate, detailed information.

For further information telephone the Fees Office at 828-5202.

Method of Payment

Payment must be made by *Money Order* or *Certified Cheque* in Canadian funds payable to "The University of Toronto"; all cheques must be *Certified*. Cash is accepted only if payment is made in person.

The amount of fees to be paid is determined by the number of courses to be taken. Students should consult the *Timetable and Registration Information* for instructions on completing the registration form and determining the fees payable.

Payment Deadlines (For the Winter Session)

Fees are due prior to registration and may be paid in full or a minimum payment consisting of 60% of academic fees and 100% of incidental fees may be made as indicated on the Schedule of Fees. All accounts must be paid in full by January 15th.

In order to avoid delays and long line-ups students are advised to pay their fees early and by mail.

Service Charges

Beginning September 15th all outstanding balances, regardless of the source of payment, are subject to a service charge of 1-1/2% per month compounded (18% per annum) calculated on the 15th of each month until the account is paid in full.

Sanctions for Non-Payment of Fees

Students who have not paid their accounts in full may not receive official transcripts or diplomas and may not re-register at the University until these accounts are paid.

Fees for Foreign Students

In accordance with the recommendations of the Government of Ontario, certain categories of students who are neither Canadian citizens nor landed immigrants are charged academic fees of approximately \$1,600.00 per session. Refer to the Schedule of Fees for details.

Other Fees**Residence Fees**

Residence fees are separate and will be approximately \$900.00 to \$1,075.00 per annum for townhouse accommodation in 1981-82. Meals may be bought in the College cafeterias or prepared in the townhouse kitchens.

Use of Awards to Pay Fees*a) Ontario Student Assistance Programme*

A student may pay his fees out of his own funds without jeopardizing his Government assistance in any way. A student wishing to use his Government awards to pay his first term fees, should enclose the "Notice of Assessment", which he received from the Ministry of Colleges and Universities, with his fees form and *submit both to the Fees Office, Erindale College.*

b) Scholarships and Bursaries

A student may apply to his fees any scholarship or bursary paid by or through the University. After deductions for any fees which may be outstanding, the balance, in the form of a cheque, will be mailed to the student by mid-November.

6

RESOURCES

Counselling

College Registrars

The College Registrars are the focal point for information and advice of all kinds. The Registrars and the staff of the Registrar's Office are the experts on rules, regulations, degree requirements and everything that affects the student's academic life. Any question or problem that is affecting the student's academic progress such as a personal problem or a question about course selection, should be brought to a Registrar. All requests for special consideration because of circumstances over which the student has no control take the form of a "petition" and are initiated only through the Registrar. When in doubt, ask your Registrar.

*Division of Humanities
and Part-Time Studies*

Dr. L. T. McCormick
Room 216 North Building

*Division of Sciences — Social
Sciences
and Coordinator of Student
Counselling*
Mrs. M. H. Cooper
Room 2122 South Building

Faculty Advisers

Faculty Advisers and Discipline Representatives can give more detailed advice on individual courses and on the programmes that are centred in their Departments. Their names will be found at the beginning of the essay of each discipline in the main body of this Calendar. Many disciplines publish brochures outlining their courses and programmes in more detail than is possible in the Calendar and these are available at their offices. Students are often directed, as well, to individual instructors for counselling about their courses.

Writing Workshop

Effective writing is a key to success in university. For those students who sense that their writing needs improvement, or for whom remedial work has been suggested, Erindale has a Writing Workshop. As well as providing individual help, the Workshop holds small seminars on the following topics:

- 1) Writing Skills (sentence structure, punctuation, etc.)
- 2) How to Organize and Write an Essay.

Individual diagnostic interviews will be given each week, starting in September. The times available for these interviews will be posted on the bulletin board beside the Workshop entrance (North Building, Room 171).

Professional Faculties

Professional faculties or schools such as Dentistry, Education, Law, Library Science, Management Studies, Medicine or Social Work admit only graduates or students who have completed certain preparatory work in the Faculty of Arts and Science. Their calendars should be consulted for details on specific requirements.

Career Counselling And Placement Centre

Central location:
344 Bloor Street West
4th Floor
(Bloor at Spadina)

978-2537

Erindale branch:
Room 3094, South Building
828-5451

Hours: 9:00 a.m. - 4:30 p.m.
Monday - Friday
(Reduced hours in May, June, July, August)

Job Placement

Summer jobs are advertised as early as October so avoid the peak months of April, May and June and visit us on a regular basis throughout the year.

Part Time opportunities are listed daily throughout the year. These may range all the way from clerical and labour jobs to such things as translating, tutoring or enumerating.

Permanent Employment

- a) *The On-Campus Recruitment Programme* for graduating students brings government, national and multinational employers together in an organized programme. Visit the office in late September for details. Over 250 companies visit the University of Toronto campus from October to March.
- b) *The Permanent Job Registry* serves new graduates and alumni seeking immediate employment. If you haven't found a job by March of your graduating year, come and register. Investigate available career opportunities which represent a good cross-section of the job market.

Career Counselling And Information

For information on preparing for a career, how to apply for a job, design a resumé, handle an interview, see the *Coordinator* of the Centre. Call or drop by to book an appointment.

Job Hunt Seminars related to "Resumé Preparation", "Interview Techniques", "Summer Job Searching" etc. are offered on a regular basis.

Answers can also be found in the "Career Information Library" which has an extensive section of Career Literature; information on major employers; a file of sample jobs cross referenced by degree area and occupational environment; a variety of employer directories; overseas employment information; education directories detailing courses offered throughout Canada and the United States; University and Community College calendars, etc.

Watch for our annual "*Careertalks*" series bringing representatives from a variety of occupational areas to discuss their respective fields with students.

The Ontario Student Assistance Programme

The components of the Ontario Student Assistance Programme are as follows:

1) *The Ontario Study Grant Plan*

The main purpose of the Ontario Study Grant Plan is to provide non-repayable grant assistance to students from less affluent families, normally for their first four years of post-secondary education.

2) *The Canada Student Loans Plan*

The main purpose of the Canada Student Loans Plan is to provide need-tested loan assistance up to and including the doctoral level of study. Students who have reached "independent status" can be assessed for loan assistance without reference to their families' income.

3) *The Ontario Student Loans Plan*

The main purpose of the provincial loans plan is to make need-tested loan assistance available to students who are not covered by the Canada Student Loans Plan. Normally this will include students taking less than 60% of a normal course load and some full-time students whose needs are not fully met by the Canada Student Loans Plan.

4) *The Ontario Special Bursary Plan*

The main purpose of the Special Bursary Plan is to ensure that particularly needy part-time students receive grant assistance. There will continue to be an upper limit on the number of courses that a student can take (3 full credit courses or their equivalent) and students will not be able to receive financial assistance from both this programme and the Ontario Study Grant Plan at the same time.

All students who are attending the University of Toronto may qualify for aid under one or more of these plans provided they satisfy the residency requirements as outlined in the Ontario Student Assistance brochure and demonstrate financial need. Students wishing to apply under the Ontario Study Grant Plan, the Canada Student Loans Plan or the Ontario Student Loans Plan can do so on the same application form. Students intending to apply under the Ontario Special Bursary Plan should contact the Student Aid Office (828-5234) or the Office of Student Awards (978-2204) directly to arrange a personal interview. Application forms and brochures are available in April and can be obtained from the Student Aid Office, Room 211, North Building (Tel. 828-5234) or from the Office of Student Awards, University of Toronto, Room 107, Simcoe Hall, Toronto M5S 1A1 (Tel. 978-2204).

For further information on financial aid please obtain a current copy of the Erindale College Awards Bulletin from the Student Aid Office, Room 211, North Building or the Registrar's Offices in both the North and South Buildings.

Miscellaneous

Library

Erindale College Library has an excellent and ever-growing collection of books, periodicals, film strips, cassettes, clippings and other materials now numbering 220,000 items. This extensive library is staffed with people trained to help the student use the Library's resources. In addition to the College Library, students and faculty have access to more than three million volumes of the University of Toronto Libraries on the St. George Campus. There is a regular book delivery service from the University of Toronto Libraries to the Erindale Campus. Telephone 828-5239.

University Health Service

The University Health Service offers a comprehensive medical service for students on the Erindale Campus; treatment and advice are available September through May. Students are encouraged to discuss their concerns about contraception, drug problems, unwanted pregnancies, sexual life and venereal disease.

Psychiatric consultation and counselling to assist the students with emotional and social problems are readily available. Students seek counselling for a wide range of concerns, including feelings of despondency, apathy, inadequacy or inferiority and with problems in areas of sexuality, drug use, parental conflict, dating, peer relationships, inability to concentrate and examination anxiety.

The primary responsibility of the Health Service is to the student; therefore, all consultations, medical and psychiatric, are strictly confidential and form no part of any "University Record". Information acquired from students will not be given to anyone at any time without the express permission of the student.

Health Service Hours

Monday to Friday 9:00 a.m. - 5:00 p.m. Telephone 828-5255.
After 5:00 p.m. Telephone 978-2458.

Athletic Requirements

Physical examination is recommended for those taking part in competitive body contact sports.

Athletics and Recreation

The Athletic and Recreation Department in conjunction with the Erindale College Student Athletic and Recreation Association (ECARA) is responsible for the planning and operation of programmes for the Erindale College community.

The programme is wide in scope, including instruction, activity clubs, fitness testing, intramural leagues for men and women, and college teams. With the exception of the ice hockey and rowing, athletic programmes take place in the physical facilities on campus which include a gymnasium, weight training room, teaching studio, therapy centre, archery range and fitness testing laboratory. Outdoor facilities include two playing fields, outdoor swimming pool and six tennis courts. At present, Erindale College teams compete in all University of Toronto interfaculty leagues and with other colleges and universities on an exhibition basis.

In addition to the facilities and programmes on the Erindale campus, students may use the facilities on the St. George campus, as well as participate in their on-campus and intercollegiate programmes.

For inquiries about the athletic programme, telephone 828-5268/9.

Residences

Erindale College offers unique residence accommodation for up to 428 students. Townhouse style residences make it possible for students to share expenses on a co-op basis. Students have estimated they can save up to \$250 per year by preparing their own meals. Each house also governs itself cooperatively. All are fully equipped and furnished (except linen).

Four-person houses have four single study-bedrooms, plus living room, kitchen and dining areas. Six-person units are made up of two single study-bedrooms, two double study-bedrooms, plus communal kitchen and living areas. There is a common laundry facility for each eight units.

Residences are just a few minutes' walk from the library, classrooms, and cafeterias where students can buy meals when they wish.

Costs are approximately \$1,075 per year, September to May, for a single at present and approximately \$900 to \$1,025 per year for a double.

For further information contact the Housing Office, Colman Place, Erindale College, Mississauga Road, Mississauga, Ontario, L5L 1C6 or telephone 828-5286.

Campus Organizations

Responsibility for recognition of organizations where the membership is drawn from a single College, Faculty or School rests with the Council of that division. Where University-wide organizations (or organizations drawing members from more than one division or constituency of the University) are concerned, responsibility is vested in the Campus and Community Affairs Committee of the Governing Council.

Eligibility for recognition is assessed annually. The constitutions of every society or association, and all subsequent amendments to such constitutions, shall be submitted to the appropriate administrative officer for perusal. The objectives and activities of groups seeking recognition should be seen as attempting to contribute to the educational, recreational, social or cultural values of the University. Membership in groups should be open to all members of the University community without restriction on the grounds of national origin, race, religion, colour, or sex. Status as non-voting members may be extended to interested persons from outside the University.

Students' Administrative Council (SAC)

The Students' Administrative Council is the central student government for all full-time undergraduates. Members are elected from their local college or faculty. The SAC office is in the Old Observatory, on the St. George campus, across from Hart House, and is open all day to provide information and assistance. SAC also maintains four other central points of focus for both tickets and information: the Information Desk (in cooperation with ECSU) in the South Building Meeting Place at Erindale, the SAC Office or "Room Under The Stairs" at Scarborough, the Information Desk at Sidney Smith on the St. George Campus and the Dentistry Ticket Outlet at the Faculty of Dentistry.

SAC provides a variety of services, including concerts, films and speakers at all three campuses, as well as representing the interest of all students both at the university and off campus. Further information with respect to SAC services and information regarding the university in general is provided in the SAC Student Handbook, available in the fall to all students.

The SAC publishes a Student Directory containing the names, addresses and telephone numbers of all students, which is available in the late fall. Students who wish their names to be omitted should send a written request to the SAC office or the Office of Statistics and Records in the early fall. (Telephone 978-4911).

The Erindale College Student Union (ECSU)

The Erindale College Student Union serves as an important link between students and the administration of the College and University. Elections are held yearly to select officers who provide for the cultural, academic and social needs of the students. ECSU sponsors *Radio Erindale*, a newspaper, various clubs, concerts, lectures, and a pub, *The Campus Centre*. It is an organization that tries to stimulate student interest outside of the classroom, with programmes that are student-oriented directed towards encompassing the entire campus community and in some instances the local community of Mississauga. All undergraduate students of the College are members of ECSU and are entitled to attend meetings, sit on commissions and vote in the general election of officers to the Union.

ECSU is made up of a Board of Directors and a second body of student representatives. Elections for student representatives take place in the early spring.

Located in the Crossroads Building, ECSU is open all year around for the greater benefit of students. Telephone: 828-5249.

Student Publications and Media

Medium II, a weekly student newspaper focuses on campus and community events, news, reviews and features. It is located at the Margeson Hut beside the Crossroads Building. Telephone: 828-5260.

The Laomedon Review, a bi-yearly creative writing journal contains literary works which include poetry, prose, drama and criticism.

CFRE (Radio Erindale) is a closed circuit radio system broadcasting campus-wide from 8 a.m. to 10 p.m. from Colman Place. Telephone 828-5411.

All students are encouraged to assist in the successful operation of the above projects.

The Association for Part-Time Undergraduate Students

The Association for Part-time Undergraduate Students (APUS) represents all part-time undergraduate students at the University of Toronto. At Erindale College the APUS branch is called EPUS and is located in Room 137, North Bldg. (828-5422). The EPUS office is staffed fall and winter evenings from 6:30 - 8:30 p.m., Mon.-Thurs.

The Association works on a class representative system; an executive committee is elected annually from the Assembly of Representatives. APUS publishes a weekly newsletter, *Voice*, an annual *Handbook for U of T Part-Time Undergraduates*, and semi-annual Course Evaluations. For further information please call 828-5422 (see office hours above) or 979-2535 (Sessional office hours 9:00 a.m. - 9:30 p.m., non-sessional office hours 9:00 a.m. - 5:00 p.m.).

International Student Centre

The International Student Centre, 33 St. George Street (978-2564), provides a meeting place for students from Canada and abroad to come together in organized programmes or informal gatherings in a multicultural setting. The "International community" on the campus can find there ample opportunity to exchange ideas, to demonstrate their cultures, and to relax together.

There is no membership fee and all students, Canadian and foreign, graduate and undergraduate, are welcome to use any of the facilities at ISC, and to participate in its activities.

The Centre provides, for a nominal fee, an English Language Programme for students requiring assistance in this area. The staff of the Centre can also advise on other English programmes available in Toronto.

The staff are also available to discuss with students any questions or concerns including immigration matters, and when necessary will refer them to the appropriate person or agency. The office of the Foreign Student Adviser is located in the Centre, as is the office of the Canadian International Development Agency Coordinator.

The Centre's International Work Study and Travel Information Service (*Interchange*) provides students and other members of the University with information about the wide range of opportunities available for experience abroad.

7 COURSES AND PROGRAMMES

Key to Course Descriptions

Students are urged to read the course descriptions completely and carefully, paying particular attention to exclusions, prerequisites and corequisites. Some higher-series courses are available to first year students and are marked with a (I) in the margin. Others may also be open to first or second year students if no specific prerequisites or restrictive notes are indicated.

The course code (or identifier) is the group of three letters, three numbers and a final letter shown in the margin beside each course description. This code is used almost everywhere to speed identification of a student's programme.

The descriptions which follow refer to courses taught at Erindale College. "(G)" after the course code in the text indicates a course appearing *only* in the St. George calendar.

Course Designations

The 3-letter prefix normally indicates the Department or College responsible for the course. Where a department offers instruction in two or more disciplines, the designation indicates the discipline but the name of the department is stated below the heading, e.g. APM represents Applied Mathematics which is given by the Department of Mathematics. Courses offered jointly by two departments have designations starting with J.

The 3-digit number generally indicates the level of difficulty of the course: e.g. a 100-series number would normally indicate an introductory course.

The single letter suffix in this Calendar indicates the credit value only:

Y — a full course for which one credit is given

H — a half-course for which one-half credit is given

Z — a course for which no credit is given

A suffix "Y" in the Calendar:

1. Remains a "Y" in the *Timetable and Registration Information* if the course is offered throughout a session
2. Becomes an "A" in the *Timetable and Registration Information* if the course is offered in the First Term
3. Becomes a "B" in the *Timetable and Registration Information* if the course is offered in the Second Term

A suffix "H" in the Calendar:

1. Remains an "H" in the *Timetable and Registration Information* if the course is offered throughout a session

2. Becomes an "F" in the *Timetable and Registration Information* if the course is offered in the First Term
3. Becomes an "S" in the *Timetable and Registration Information* if the course is offered in the Second Term

Types and Duration of Instruction

- L — Lectures
 S — Seminars
 P — Practical work in laboratories or studios
 T — Tutorials

In the Winter Session the normal period of instruction in full courses ("Y" in the Calendar) is 26 weeks; for half courses ("H" in the Calendar) it is 13 weeks, although there are some half-courses which continue for 26 weeks. The numbers preceding the instruction codes opposite the course number and title indicate the number of hours per week of instruction given in the course; 2L, 2T indicates that the course has 2 hours of lectures and 2 hours of tutorials per week.

An appropriate adjustment in the number of instruction hours per week is made when a course is scheduled for a different period. The Timetable Section of the *Timetable and Registration Information* should be consulted for specific scheduling information.

Explanation of Symbols

- P.I. *Permission of the Instructor required for enrolment*
 / *Means "or"*
 & or, *Mean "and"*
 (I) *May be taken by first year students*
 (G) *A course offered only on the St. George Campus.*

Programmes of Study

General

Each student whose first registration in the Faculty is in or after the Summer Session of 1980 must register in a Specialist or Major Programme or Approved Area of Study upon passing his fourth course, and must complete it as a requirement for graduation. Candidates for a four-year degree must complete at least one Specialist or two Major Programmes; candidates for a three-year degree must complete at least one Major Programme.

Students registered in the Faculty before the Summer Session of 1980 may complete a Programme or Programmes, but need not do so as a requirement for graduation. The sponsoring Department(s) may permit such students to follow the Programme requirements printed in the 1979-80 Calendar, or a suitable variation of them, if they wish to do so. Regardless of the Programme being followed, they need not complete the Distribution Requirement. Since Programme registration is not compulsory, completion will appear on such a student's record only when the sponsor(s) so inform the Faculty Office at the time of the student's graduation.

Distribution Requirement

Students whose first registration is in or after the Summer Session 1980 must complete at least one full course equivalent from each of the following Divisions: Humanities, Science, Social Science.

Individual Approved Areas of Study

Students wishing to pursue a programme other than (or in addition to) those afforded by the disciplines and the Approved Areas of Study listed below may make application for an individual Approved Area of Study, to consist of five to seven full-course equivalents (including prerequisites) for a three-year Approved Area, nine to sixteen full-course equivalents (including prerequisites) for a four-year Approved Area. Such students should prepare for their Dean, through whom formal application will be made, a coherent grouping of courses designed to meet their individual needs.

Specialist, Major, Minor Programmes

Anthropology

Specialist programme

9 courses are required in a programme of at least 20 courses:

ANT100Y

ANT203Y, 204Y, 226Y, and at least one of ANT207H, 228H, 231H, and any other courses in Anthropology.

Major programme

6 courses are required in a programme of at least 15 courses:

ANT100Y

ANT203Y, 204Y, 226Y and any other courses in Anthropology

NOTE: *Specialists may receive B.A. or B.Sc. (See Degree Requirements)*

Art and Art History

See page 82

Astronomy

Major Programme

Seven courses are required in a programme of at least 15 courses.

AST120Y, MAT138Y, PHY140Y

EPS237H, MAT235Y, PHY231Y

AST320H and any two of AST225H(G), AST210H(G), AST251H, and AST323H(G).

(AST225H(G) is strongly recommended.)

For the purposes of this major programme, AST321H(G) and 322H(G) are considered equivalent to EPS237H and AST320H, respectively.

Astronomy and Physics

Combined Specialist Programme

16 courses are required in a programme of at least 20 courses:

AST120Y; MAT138Y; PHY140Y

AST225H(G); EPS237H; MAT239Y; MAT214H/APM251Y; PHY231Y, 254Y, 256H

AST320H; APM311H/351Y; MAT334H; PHY325Y, 340Y, 352Y, 351H, 354H

AST420Y(G), 425H; one of PHY470Y, 471Y or a 450 series PHY course on the St. George campus.

Students are urged to satisfy their distribution requirements in their first year.

Biology

Specialist programme

This core is designated for students desiring a degree which reflects a good, sound education in all aspects of Biology. The programme leaves open a number of options for students interested in more specialization. Those who complete the core programme and a carefully selected group of options will be qualified for graduate studies in most areas of Biology, and for employment opportunities requiring an undergraduate degree in Biology.

Required Courses:

16 courses are required in a programme of at least 20 courses; 12 from the *core* programme and 4 *additional* Biology courses. Students are encouraged to gain expertise in a specific area of Biology by structuring

their *core* and *additional* courses around one of the areas of concentration listed below.

Core Courses (12)

BIO100Y; CHM118Y/150Y; MAT132Y/138Y; PHY118Y/140Y
BIO230H, 241Y

Three of BIO235Y, 250Y, 251Y, 270Y

One of CHM221Y, CHM240Y, PHY210Y

One of BIO320Y, 321Y, (352H & 353H), 370Y

BIO340Y, 360H

Additional Courses (4)

4 Biology Courses

AREAS OF CONCENTRATION

<i>Ecology and Field Biology</i>			<i>Organismal Biology</i>	<i>Genetics & Cell Biology</i>
<i>General</i>	<i>Plant</i>	<i>Animal</i>		
BIO 231H	BIO 330Y	BIO 323H	BIO 321Y	BIO 352H
235Y	355H	333H	334H	353H
300H	430Y	431H	335H	370Y
301H	456H	432H	351Y	371H
302H		322H	354H	440Y
303H		422H	355H	455Y
332Y		JPB 359Y	356H	470Y
361H			421Y	CHM 240Y
433H				360Y
435H				
460H				

1) Of the remaining 4 options available (20 credit programme) one must be a course offered by the Division of Humanities and one must be a non-Biology course from the Division of Natural Sciences or Social Sciences. Courses in cognate studies such as Computer Science, Physics, Chemistry, Earth and Planetary Sciences, Psychology and Anthropology are recommended as valuable non-Biology options and may also be used as substitutes for not more than two Biology options.

2) Certain courses in other departments may be considered as BIO courses i.e. CHM360Y, JPB359Y. Students should consult with the faculty advisors before registration if they wish to substitute a non-Biology course for a Biology option.

3) Environmentally-oriented students should consider including BIO235Y (Field Biology) in their first year programme.

4) No substitute statistics course will be allowed for BIO360H except under extenuating circumstances.

5) Students who wish to switch from the Specialist to the Major Programme in Biology have to satisfy the requirements of the latter. It is recommended therefore that all students in the Specialist Programme fulfill the requirement for the Major Programme within the first three years of their study.

Erindale 100 and 200 level BIO courses (and BIO360H-361H) will be treated as equivalent to corresponding St. George campus courses in satisfying requirements for the following St. George specialist programmes; Biology and Mathematics, Biology and Physics, Microbiology, Nutrition and Food Science, Paleontology, Pharmacology, and Physiology. Students who intend to begin these programmes at Erindale should consult a Biology advisor as early as possible.

Major programme

7 courses are required in a programme of at least 15 courses:

BIO100Y; CHM118Y/150Y; MAT132Y/138Y.

BIO(230H & 231H)/241Y.

Two BIO235Y, 250Y, 251Y, 270Y.

One of BIO320Y, 321Y, 340Y, (352H/353H), 370Y.

Chemistry*Specialist programme*

15 courses are required in a programme of at least 20 courses:

CHM150Y; MAT132Y/138Y; PHY140Y

CHM215H, 221Y/226Y, 230H, 241Y; MAT235Y/239Y/APM251Y

(PHY231Y/another 200-series course in Science/Mathematics recommended for inclusion in either Second or Third year)

CHM321Y, 330Y, 340Y, 360Y/another Science or Mathematics course

CHM419Y; two additional 400-series CHM full-course equivalents and one additional CHM/MAT/another Science course or equivalent

Major programme

7 courses are required in a programme of at least 15 courses:

CHM118Y/150Y, MAT132Y/138Y, CHM215H, 221Y/222Y/226Y, 230H, 240Y/241Y

Two of CHM315H plus 316H, CHM321Y, 330Y, 340Y, 360Y

NOTE: *Limitations on CHM118Y as a prerequisite for 200-series CHM courses.*

MAT prerequisite for CHM321Y. For a balanced training in Chemistry, students should take CHM321Y, 330Y and 340Y.

Chemistry and Biochemistry*Specialist programme*

15 1/2 courses are required in a programme of at least 20 courses:

CHM150Y; BIO100Y; MAT132Y/138Y; PHY140Y

CHM215H, 221Y/222Y/226Y, 230H, 241Y; MAT235Y/239Y/APM251Y

CHM321Y/330Y; 340Y, 347H, 360Y, 371H

CHM447H(G)/BCH424H(G); one of BCH471Y(G)/CHM419Y; one additional BCH400(G)-series half-course; one additional CHM400-series half-course (preferably organic); one additional 400-series BCH or CHM full course (or equivalent).

Chemistry and Geology*Specialist programme*

The Chemistry and Geology programme is intended for students with a strong chemistry background who wish to undertake graduate work in this area or who may be contemplating professional careers in the oil and mining industries. Sixteen courses are required in a programme of at least 20 courses. See Earth and Planetary Science.

Physical Chemistry*Specialist programme*

16 courses are required in a programme of at least 20 courses:

CHM150Y; MAT132Y/138Y; PHY140Y

CHM221Y/226Y, 230H, 240Y; MAT239Y; APM251Y; PHY230Y, 254Y; CHM321Y, 330Y/340Y; APM351Y (CHM215H recommended)

1 1/2 400-series CHM courses, two of PHY352Y, 351H plus 354H, 435H plus 458H, any other 300Y- or 400Y- series CHM course.

NOTE: Choice of fourth-year courses must be approved by the Chemistry Department. The Physical Chemistry programme includes the study of more physics than the Chemistry Specialist programme and is intended for students interested in the more physical areas of chemistry.

Biochemistry

Specialist programme

11 courses required in a programme of at least 20 courses:
 BIO100Y; CHM150Y; MAT132Y/138Y; PHY118Y/140Y
 CHM221Y/222Y/226Y; CHM240Y/241Y; CHM230H recommended
 CHM340Y (if CHM240Y has been taken); CHM347H, 360Y, 371H
 BCH471Y(G) and four of BCH421H(G)-430H(G)

NOTE: CHM241Y satisfies all the requirements in Organic Chemistry. Exemption from the CHM230H corequisite for CHM241Y may be obtained for students in this programme by application to the Chemistry Department. If CHM240Y is taken instead of CHM241Y then CHM340Y must also be included in the programme.

The Biochemistry Specialist programme can be taken wholly at Erindale for the first three years but students must take their fourth-year courses on the St. George Campus.

Classics

Classical Civilization

Major programme

6 courses are required in a programme of at least 15 courses:

One GRH full course or equivalent; one GLL full course or equivalent;
 One full course or equivalent in ancient fine art (usually FAH101Y);
 Three other full course equivalents in GRH; GLL; GRK; LAT;
 PHL200Y, HIS485Y, 486Y.

The programme is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

Commerce

Bachelor of Commerce programme (B.Com.)

23 full courses required, specific subject requirements plus additional course requirements are summarized as follows:

7.0 Commerce

COM100Y, 220Y, 337Y and 4.0 additional full course equivalents in COM

7.0 Economics

ECO100Y, 200Y, 202Y; ECO203Y/221Y/322Y; ECO220Y/STA242Y;
 ECO(311H and 366H)/(325H and 326H)/(364H and 365H)/COM325Y;
 One additional full course equivalent in ECO

0.5 Computer Science

CSC139H

1.0 Mathematics

MAT132Y/138Y

4.0 Full course equivalents other than Commerce, Economics, Mathematics and Computer Science. One of these must be a humanities course.

3.5 Full course equivalents from any discipline including Commerce, Economics, Mathematics and Computer Science.

NOTES:

1. *Students must successfully complete at least four courses including COM100Y, ECO100Y and MAT132Y before they will be considered for formal entrance to the B.Com. programme, which begins with COM220Y. Since there are a limited number of spaces available in the programme, a minimum mark of 60 must be achieved in both COM100Y and ECO100Y and a minimum average in the two of 65. Students meeting these requirements are ranked by their cumulative grade point average and the highest ranked candidates are admitted to the B.Com. programme until all spaces are filled.*
2. *Students must enrol with the department in the September of the year in which they are accepted into the programme. The programme requirements in force at that time must be met in order to fulfill the degree requirements. Students must re-enroll with the department each September.*
3. *Students are advised to take CSC139H as one of their five courses in first year. It should be noted that six courses should be completed in each of the subsequent years.*
4. *Students must take at least two full courses at 200 or higher series level other than Commerce and Economics.*
5. *A cumulative G.P.A. of 1.50 or more must be obtained for all courses included in the student's programme and a grade of C- or higher must be obtained in each of at least six full 300 or 400 series level courses.*
6. *A maximum of six 100 series level courses may be taken.*

Major programme

7 full courses are required in a programme of at least 15 courses as follows:

2.5 or 3 courses from

COM100Y/203H, ECO100Y, MAT132Y/138Y

4.5 or 4 courses from

COM204H, 323Y, 331Y, 349H, WDW103Y, ECO220Y/STA242Y, CSC139H.

NOTES:

1. *Students must successfully complete at least four courses including MAT132Y and ECO100Y or COM100Y before they will be considered for formal entrance to the programme which begins with COM203H for students who did not complete COM100Y, or COM204H for students who completed COM100Y. Marks obtained in ECO100Y or COM100Y and the cumulative GPA will be taken into consideration in admitting students to the programme.*
2. *Students must enrol with the department in the September of the year in which they are accepted into the programme. The programme requirements in force at that time must be met in order to fulfill the degree requirements. Students must re-enroll with the department each September.*

Computer Science*Specialist programme*

10 courses are required in a programme of at least 20 courses:

CSC139H/149H, 158H; MAT138Y

CSC228H, 248H, 258H; MAT228H, 239Y

CSC336H, 348H, 356H; MAT334H/344H(G)/315H(G); STA242Y

Any two of CSC364H, 438H(G), 441H(G), 446H(G), 448H(G), 451H(G), 478H(G) including at least one of CSC364H, 438H(G), and 448H(G).

Any two of CSC368H, 340H(G), 434H(G), 458H(G), 468H(G), 474H(G), 484H(G)

Recommended option: MAT104H/204H

Major programme

6 1/2 or 7 courses are required in a programme of at least 15 courses:

CSC139H/149H, 158H; MAT132Y/138Y

CSC248H, 258H; MAT228H/STA242Y

Six CSC half-courses from the following:

At least two of CSC228H, 356H, 368H, 340H(G), 434H(G), 444H(G), 458H(G), 468H(G), 474H(G), 484H(G)

At least two of CSC336H, 348H, 364H, 438H(G), 441H(G), 446H(G), 448H(G), 451H(G), 478H(G)

The additional two half-courses may be taken from any of the two categories above, or any of CSC208H, 218H(G), 300H(G), ECO200Y (which counts as two half-courses).

Computer Science for Data Management*Specialist programme*

13 courses are required in a programme of at least 20 courses:

CSC139H/149H, 158H; COM100Y; ECO100Y; MAT132Y/138Y

CSC228H, 248H, 258H; ECO200Y; MAT234Y

CSC356H; COM220Y; MAT228H; STA242Y

Any two of CSC336H, 348H, 364H, 438H(G), 448H(G), 478H(G)

Any three of CSC340H(G), 368H, 434H(G), 444H(G), 458H(G), 468H(G), 474H(G), 484H(G) including at least one of CSC434H(G), 458H(G)

NOTE: Students should arrange their programme so as to complete the requirements for the major in Computer Science by the end of the third year.

Specialist programme (Mathematical Sciences)

See the listing for Mathematics.

Minor programme

3 courses are required:

CSC148H/149H, 158H, MAT132Y/138Y, and any two of CSC228H, 248H, 258H.

Drama*Major programme*

6 courses are required in a programme of at least 15 courses:

These courses must be chosen from the following groups:

Theatre History and Theory

DRM110Y

Theatre Practice

DRM200Y, 300Y

Dramatic Literature

ENG212Y, 254H, 332Y, 338Y

FRE254H, 354H, 423H

GER421Y

ITA272H

SLA367H

SPA348Y.

Earth and Planetary Science Geology*Specialist programme*

16 courses are required in a programme of at least 20 courses:

A minimum of 10 Geology courses (EPS/GLG) and 6 basic science courses are required. The basic science courses are defined as APM; BIO; BOT; CHM; CSC; MAT; PHY; STA; ZOO. The Geology specialist programme also requires participation in two field camps

which are held following completion of the final examinations in the spring terms of the second and third years respectively.

The following courses are specifically required:

EPS120Y or equivalent; CHM118Y/150Y; MAT132Y/138Y; PHY118Y/140Y;

EPS200H, 219H, 221H, 270H; one full course equivalent from:

MAT208H/214H/228H/235Y/239Y/STA202H/212H/242Y

EPS320H, 321H/337H, 322H, 332H, 345H, 338H/365H/370H

The basic science requirement can be completed by BIO100Y/200 or higher level courses in APM, BOT, CHM, CSC, MAT, PHY, STA, ZOO, (except MAT204H and St. George campus courses BOT200Y, 201Y, MAT220Y, PHY315H, ZOO200Y). Students are urged to include at least one half course in computer programming, such as CSC139H, in their programme.

The Geology course requirement consists of 4 full course equivalents in addition to the above, at least three of which must be at the 400-level.

The following may be substituted for EPS/GLG300- and 400-level courses: GGR311H; PHY324H, 338Y, 422H, 423H, 443H; BIO354H.

Suggestions for more completely defined programmes which emphasize one particular geological field or a basic science are available on request from the faculty advisors.

Major programme

7 courses are required in a programme of at least 15 courses. These consist of EPS120Y or equivalent; MAT132Y/138Y; CHM118Y/150Y; EPS200H, 219H, 221H, 270H; at least two EPS/GLG full-course equivalents from the 300/400 series.

Suggestions for more complete descriptions of major programmes, particularly joint majors with biology, computer science, geography, surveying, etc., are available from the faculty advisors upon request.

Geology and Chemistry

Specialist programme

16 courses are required in a programme of at least 20 courses; they include a minimum of 7 chemistry, 6 geology, 2 mathematics and 1 physics courses:

CHM150Y; EPS120Y, MAT132Y/138Y, PHY140Y;

CHM215H, 221Y/226Y, 230H; EPS200H, 219H, 221H; MAT235Y/239Y;

CHM240Y/241Y, 330Y; EPS320H, 321H, 330H, 345H;

CHM(315H/316H)/321Y/340Y, GLG331S, 400-level full-course equivalent in chemistry, a 300/400 full-course equivalent in geology.

Geology and Physics

Specialist programme

16 courses are required in a programme of at least 20 courses; they comprise a minimum of 6 1/2 EPS/GLG, 1/2 CSC, 3 APM/MAT and 6 PHY courses:

CSC139H/149H; EPS120Y; MAT138Y; PHY140Y;

EPS200H, 219H, 221H; MAT214H, 239Y; PHY231Y, 254Y;

APM311H; EPS236H, 322H, 332H, 334H; PHY352Y; recommended options are among EPS237H, 320H, 321H, 337H, 338H, 345H, PHY256H, 351H

2 full-course equivalents in EPS/GLG300/400 (e.g. from above list of recommended options or GLG300H, 321H, 324H, 332H, 428H, etc.); PHY331H, 421H, 443Y.

Note that the above programme leaves 1 1/2 course as options in first year, and students are urged to use this opportunity toward satisfying the Humanities and Social Sciences course requirements. Note also that the first term of second year requires taking 6 courses rather than the normal 5.

Economics*Specialist programme**

13 courses are required in a programme of 20 courses:

ECO100Y

MAT132Y/138Y

ECO206Y**

ECO208Y**

ECO220Y/STA242Y

ECO322Y

ECO325H and 326H

ECO327Y

One of ECO203Y/221Y

Four other ECO full courses (or equivalent) above the ECO200- level, including one ECO 400- level full course (or equivalent).

*Major programme**

7 courses are required in a programme of 15 courses:

ECO100Y

MAT132Y/138Y

ECO200Y/206Y

ECO202Y/208Y

ECO220Y/STA242Y

Two other ECO full courses (or equivalent) at least one of which is at the 300 level.

*Minor programme** (for students initially enrolled in 1980-81 and subsequent academic years)

3 courses are required

ECO100Y

Two other ECO full courses (or equivalent).

Economics and Political Science*Combined specialist programme**Economics**

8 courses in Economics (and Mathematics) and 7 courses in Political Science are required in a programme of 20 courses:

ECO100Y

MAT132Y/138Y

ECO200Y/206Y

ECO202Y/208Y

ECO220Y/STA242Y

ECO322Y

One of ECO203Y/221Y

One additional full course (or equivalent) in Economics.

Political Science

7 courses in Political Science, at least 5 from the 200- or higher series level:

One full course in Canadian Government

POL200Y

POL214Y

One full course (or the equivalent) from two of the following four fields:

Comparative Politics (Industrial Countries)

Comparative Politics (Developing Countries)

International Relations

Political Behaviour

Two additional full courses (or the equivalent) in Political Science.

* The enrolment in most Economics courses above the ECO100-level is restricted and may depend upon grade achievement levels. Students must consult the Departmental brochure (available from the Departmental Office at Erindale) for details.

** ECO206Y and ECO208Y will be introduced in 1981-82 as the core intermediate theory courses for the Economics Specialist Programmes.

English*Specialist programme*

For this programme a student is required:

To complete at least 10 and not more than 15 courses in English, in a programme of at least 20 courses.

To complete at least 5 courses outside the Department of English by the end of his Fourth year. The basic programme of 10 courses consists of one course from each of the following categories:

ENG108Y/112Y/140Y/165Y

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/415Y

ENG207Y/308Y/346Y/368Y/417Y

ENG322Y/324Y

ENG250Y/252Y/(254H & 357H)/256Y/317Y/354Y/451Y/454Y

ENG328Y/338Y/348Y/419Y

ENG404Y/413Y/415Y/417Y/419Y/451Y/454Y/466Y/467Y/469Y

Major programme

7 courses are required in a programme of at least 15 courses.

For this programme a student is required:

To select one full course from the first category below, at least one full course from any of the next four categories (pre-1800), at least one full course from any of the last two categories (post-1800), and any other four full ENG courses (including any listed below).

ENG108Y/112Y/140Y/165Y

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/322Y/415Y

ENG207Y/308Y/324Y/346Y/368Y/417Y

ENG328Y/338Y/348Y/419Y

NOTE: Students wishing to transfer from the Specialist to the Major programme in English and take a fifteen-course (3-year) degree may do so, provided they have fulfilled the requirements for the Major programme by the end of their Third year.

Students wishing to keep this transfer option open should plan to complete at least seven courses selected as specified by the Major Programme by the end of their Third year.

Minor programme

For this programme a student is required:

To complete 3 full courses in English, in a programme of at least 15 courses.

English and History*Combined Specialist Programme:*

For this programme a student is required to complete 14 courses in a programme of at least 20 courses.

To complete at least 6 and not more than 8 courses in English, at least one from any of the first four categories below (pre-1800), at least one from any of the last two categories below (post-1800), and any other four ENG full courses (including any listed below).

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/322Y/415Y

ENG207Y/308Y/324Y/346Y/368Y/417Y

ENG328Y/338Y/348Y/419Y

To complete at least 6 and not more than 8 courses in History, in at least two areas and including:

- a) one course before 1815
- b) two 300/400-level courses in British History
- c) two courses which correspond in area and period or in theme to two of the period or national literature courses in English.

Normally one course will be a senior essay (either ENG469Y or HIS497Y) in the Fourth Year of study on a topic chosen by the student and written under the supervision of the Department of English or History. Students in the programme are required to confirm their programme annually with the Faculty Advisor during the registration period.

English and Philosophy

Specialist programme

For this programme a student is required to complete 14 courses in a programme of at least 20 courses. To complete at least 6 and not more than 8 courses in English, at least one from any of the first four categories below (pre-1800), at least one from any of the last two categories below (post-1800), and any other four ENG full courses (including any listed below).

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/322Y/415Y

ENG207Y/308Y/324Y/346Y/368Y/417Y

ENG328Y/338Y/348Y/419Y

The equivalent of 6 or 7 full PHL courses, at least three of them above the 200-level.

Modern Languages and Literatures

Double Major Programme (English and another Language)

For this programme a student is required to complete 7 full courses in English, in a programme of at least 20 courses.

To select at least one full course from any of the first four categories below (pre-1800), at least one full course from the last two categories (post-1800), and any other four ENG full courses (including any listed below).

ENG200Y/300Y/312Y/404Y

ENG206Y/302Y/304Y/413Y

ENG212Y/332Y

ENG306Y/322Y/415Y

ENG207Y/308Y/324Y/346Y/368Y/417Y

ENG328Y/338Y/348Y/419Y

French

Specialist programme

10 courses are required in a programme of at least 20 courses:

1. FRE171Y, 271Y, 371Y.
2. FRE140Y, which serves as a prerequisite for further literature courses.
3. At least one full-course equivalent from among the following linguistic courses: FRE272Y, 375Y, 475Y or Independent Study or a Special Seminar in the area.
4. At least one full-course equivalent from among the following literature courses primarily devoted to texts prior to 1800: FRE220Y, 322Y or Independent Study or Special Seminar in the area.
5. At least one full-course equivalent from among the following courses primarily devoted to texts after 1800: FRE224Y, 254H, 354H, 364Y, 366Y, 423H, 424H or Independent Study or Special Seminar in the area.

6. One full-course equivalent devoted to Québécois literature: FRE230Y or Independent Study or Special Seminar in the area.
7. At least four of the ten courses must be from the 300/400 series, including at least one from the 400-series other than FRE471Y.

NOTE: That in addition to the courses mentioned specifically above, FRE210H and 211H (Strasbourg and Aix only), FRE277Y and 471Y may be counted toward the Specialist Programme requirements. Only two courses from the rubric of Special Seminars or approved non-FRE courses may be counted toward Specialization.

The following may not be counted: FRE101Y, 121Y, 161Y, 202Y, 204Y, 261Y, 361Y.

Major programme

7 courses are required in a programme of at least 15 courses:

1. FRE171Y, 271Y.
2. FRE140Y, which serves as a prerequisite for further literature courses.
3. At least one linguistic course (see Specialist Programme 3. above).
4. At least two courses in literature (see Specialist Programme 4., 5., and 6. above).
5. At least one of the seven courses must be from the 300/400 series.

SEE NOTE ABOVE at end of Specialist Programme.

Minor programme

3 courses are required in a programme of at least 15 courses.

Geography

Specialist programme

9 full course equivalent GGR courses in a programme of at least 20 full courses, including:

- a) all of GGR202H, 212H, 207H, 276H, 280H, 300H, 381H, 491Y;
- b) any other 4½ full course equivalents from GGR.*

Major programme

6 full course equivalent GGR courses in a programme of at least 15 full courses.

2 full course equivalents from GGR202H, 212H, 207H, 276H, 280H, 300H, 381H.

Any other 3 ½ full course equivalents from GGR.*

*In selecting these courses, students may wish to design a sequence which concentrates on specific sub-fields of the discipline. Below is a list of clearly identifiable sub-fields and appropriate courses.

The Physical Environment

GGR100Y, 201H, 205H, 206H, 214H, 301H, 302H, 304H, 305H, 373H, 374H, 376H, 379H, 383H.

Environmental Management

GGR101Y, 131Y, 201H, 206H, 214H, 233Y, 255H, 301H, 302H, 305H, 332H, 333H, 334H, 373H, 374H, 383H.

The Geography of Cities

GGR131Y, 220Y, 245Y, 250Y, 255H, 324H, 333H, 340Y, 346H, 349Y, 352H, 354H, 361Y, 441H.

Cultural-Historical Geography

GGR131Y, 245Y, 253Y, 255H, 333H, 340Y, 344Y, 346H, 351Y, 353H, 361Y.

NOTE: The following courses may be counted for B.Sc. credit:
GGR201H, 202H, 206H, 207H, 212H, 214H, 280H,
GGR300H, 301H, 302H, 304H, 305H, 373H, 374H, 376H, 379H, 381H,
383H, 491Y.

German

German Language and Literature

Specialist programme

10 courses are required in a programme of at least 20 courses:

First year : One of GER120Y/130Y/200Y or two of GER110Y, 120Y, 130Y.

Second year: Two of GER210Y, 220Y, 230Y.

Third and fourth years: GER326H; at least 2½ courses, chosen from the following:

GER310Y/311Y, 312H, 410Y, 411Y, 415H, 416H, 490H; at least 3 courses, from GER321H, 322H, 323Y, 324Y, 325Y, 327H, 420Y, 421Y, 422Y, 425Y, 428H, 490H.

NOTE: Students must pass a test in oral fluency in German; this will normally be taken in the Third Year.

SMC235Y(G) is recommended for specialization.

Students without Grade 13 German wishing to specialize in German should arrange their programme in consultation with the Department.

Major programme

7 courses are required in a programme of at least 15 courses:

First Year: One of GER120Y/130Y/200Y or two of GER110Y, 120Y, 130Y.

Second Year: Two of GER210Y, 220Y, 230Y.

Third Year: GER326H; at least one course chosen from the following: GER310Y/311Y, 312H, 410Y, 411Y, 415H, 416H, 490H; at least 1½ courses from: GER321H, 322H, 323Y, 324Y, 325Y, 327H, 420Y, 421Y, 422Y, 425Y, 428H, 490H.

NOTE: Students must pass a test in oral fluency in German; this will normally be taken in the Third Year.

Students without Grade 13 German wishing to major in German should arrange their programme in consultation with the Department.

Minor programme

Any three sequential and/or coherent courses in German language or literature, as accepted by the department.

Modern Languages and Literature

German

First Year: One of GER120Y/130Y/200Y or two of GER110Y, 120Y, 130Y.

Second Year: Two of GER210Y, 220Y, 230Y.

Third and Fourth Years: At least 1½ courses chosen from the following:

GER310Y/311Y, 312H, 326H, 410Y, 411Y, 415H, 416H, 490H; at least 1½ courses chosen from the following: GER321H, 322H, 323Y, 324Y, 325Y, 327Y, 420Y, 421Y, 422Y, 425Y, 428H, 490H.

NOTE: Students must pass a test in oral fluency in German; this will normally be taken in the Third Year.

Students without Grade 13 German wishing to co-specialize in German should arrange their programme in consultation with the Department.

History

Specialist programme

9 courses or their equivalent are required in a programme of at least 20 courses:

History courses from other departments - normally not more than three - may be substituted for HIS courses with the approval of the Discipline Representative. Courses in ancient Greek and Roman History are offered, for example, by the Classics Department. See under GRH.

The nine courses are to be chosen from a minimum of three areas of study (e.g. European, Russian and East European, Medieval, Canadian, American, Latin-American, British).

In each of two areas a minimum of two 300/400 level courses must be chosen.

Of the nine courses at least two must deal with time periods preceding 1815. (Consult the Erindale History Handbook for listings of pre-1815 courses.)

Major programme

5 courses are required in a programme of at least 15 courses:

History courses from other departments - normally not more than one - may be substituted for HIS courses with the approval of the Discipline Representative. Courses in ancient Greek and Roman History are offered, for example, by the Classics Department. See under GRH.

The five courses must be chosen from a minimum of two areas of study (e.g. European, Russian and East European, Medieval, Canadian, American, Latin American, British).

Of the five courses at least two must be at the 300/400 series level.

Of the five courses at least one must deal with a time period preceding 1815. (Consult the Erindale History Handbook for listings of the pre-1815 courses.)

Italian

Specialist programme

10 full courses are required in a programme of at least 20 courses:

Two courses or equivalent from ITA100Y, 115Y, 200Y, 210Y, 340Y, 430H, 450H.

ITA321Y, 436Y

One full course or equivalent from ITA323H, 326H, 420Y, 427H.

One full course or equivalent from ITA322H, 325H, 390Y.

Four other courses in ITA selected from the ones listed above and in the calendar.

Major programme

7 courses are required in a programme of at least 15 courses:

Two courses from ITA100Y, 115Y, 200Y, 210Y, 340Y.

ITA 321Y, 390Y (or 322H and 325H)

Any other 3 full courses or equivalent in ITA selected from the ones listed above and in the calendar.

Minor programme

3 ITA courses are required in a programme of at least 15 courses:

Possible combinations:

Three courses or equivalent from the following, given all in English:
ITA240Y, 270H and 272H, 275Y, 330Y.

or

Three consecutive language courses

or

Three courses or equivalent selected in consultation with and approved by the Italian Department.

NOTE: Students intending to pursue graduate studies in Italian at the School of Graduate Studies in Toronto must include, among the 10 courses required for admission and specified in the specialist programme, a half course on the history of the language (usually ITA430H, which is normally taught on the St. George Campus) and must obtain an overall average of at least 75% in their last two years of study.

Mathematical Sciences

Specialist programme

10 courses are required in a programme of at least 20 courses.

CSC139/149H, 158H, MAT104H, 108H, 138Y

APM251Y, CSC248H, MAT228H, 239Y, STA242Y

CSC348H, MAT334H, one of:

APM251Y/311H, 336H/CSC228H/258H/MAT338H, 349H/STA302H, STA402H/312H, 412H

plus one full course in APM, MAT, CSC or STA.

Major programme

6 courses are required in a programme of at least 15 courses.

MAT108H, 138Y

APM251Y, MAT228H, 239Y

CSC348H, MAT334H, and one 300/400 series full course in APM, CSC, MAT, or STA

Minor programme

MAT108H, 132Y/138Y, one and one-half other courses in APM or MAT.

Philosophy

Specialist programme

The equivalent of 9 full courses in Philosophy is required in a programme of at least 20 courses, with at least half of the Philosophy courses above the 200 level. A student's programme must be worked out with the appropriate staff Specialist Coordinator. This programme will normally be established by the end of the student's second year, and confirmed at registration in subsequent years. While taking account of the student's personal interests and aims, the programme will normally include at least the stated number of courses in the following:

2 History of Philosophy

1/2 Logic

1 Epistemology/Metaphysics

1 Ethics/Social and Political

1/2 Individual Studies

Major programme

The equivalent of 6 full Philosophy courses is required in a programme of at least 15 courses, with at least two of the Philosophy courses above the 200 level.

Combined Specialist programme

Philosophy and Economics; Philosophy and English; Philosophy and History; Philosophy and Linguistics; Philosophy and Political Science; Philosophy and Religious Studies.

Minor programme

The equivalent of 3 full Philosophy courses is required in a programme of at least 15 courses.

To complete a "Minor Programme in Philosophy", students should consult the Department of Philosophy for details.

Physics*Specialist programme*

14 courses required in a programme of at least 20 courses:

PHY140Y; MAT138Y

PHY231Y, 254Y, 256H; MAT239Y, 214H/APM251Y

PHY325Y, 340Y, 352Y, 351H, 354H; APM311H/351Y, MAT334H

PHY425Y, two of 470Y/471Y/(fourth year physics courses on the St. George campus)

Major programme

7 courses required in a programme of at least 15 courses:

PHY118Y/140Y; MAT132Y/138Y

PHY210Y/254Y, 231Y, 256H; MAT235Y/239Y

PHY326H/340Y; APM311H; MAT334H/319H(G)

NOTE: PHY210Y/254Y may be taken in year 2 or 3 in major programme.

Political Science*Specialist programme*

10 courses are required, at least 8 at the 200- or higher series level in a programme of 20 courses:

One full course in Canadian Government.

At least two of: POL200Y, 320Y, 329Y

One full course (or the equivalent) from each of *three* of the following *four* fields:

Comparative Politics (Industrial Countries)

Comparative Politics (Developing Countries)

International Relations

Political Behaviour

Four additional full courses in Political Science

Recommended: ECO100Y

Major programme

7 courses in Political Science, at least 5 at the 200-or higher series level in a programme of 15 courses:

One full course in Canadian Government

POL200

One full course (or the equivalent) from each of *two* of the *four* fields listed in the Specialist programme.

Three additional full courses in Political Science

Minor programme

3 courses in Political Science, at least 2 at the 200- or higher levels:

One course in Canadian Government

POL200Y

One other full course in Political Science

Economics and Political Science*Specialist programme*

8 Economics (and Mathematics) courses and 7 Political Science courses are required in a programme of at least 20 courses.

The following courses must be included in the programme:

Economics

ECO100Y

MAT132Y/138Y

One of ECO200Y, 206Y

One of ECO202Y, 208Y

ECO220Y/STA242Y

ECO322Y

One of ECO203Y, 221Y

One additional full course (or equivalent) in Economics

Political Science

7 courses in Political Science, at least 5 from the 200- or higher series level:

One full course in Canadian Government

POL200Y

POL214Y

One full course (or the equivalent) from two of the following four fields:

Comparative Politics (Industrial Countries)

Comparative Politics (Developing Countries)

International Relations

Political Behaviour

Two additional full courses (or the equivalent) in Political Science.

Psychology*Specialist programme*

10½ (10 for students entering before 1978-79) full courses in Psychology or their equivalent are required. All candidates for specialization must take PSY100Y, 201H, 202H, and 260H (PSY260H is not required for students entering before 1978-79) as well as one course from each category as listed in I.2. In addition, the remaining eight full courses in Psychology must satisfy the distribution requirements listed below in section II.3 and III.1 and the laboratory requirement in section III.2. The student interested in specializing in Psychology should take into account these distribution requirements as well as course prerequisites in planning his remaining eight courses. It should be noted that a single course may not be used to satisfy more than one distribution requirement.

- I.1) PSY100Y
- 2) One of ANT100Y/BIO100Y/SOC101Y/PHL100Y/MAT124H/132Y/104H/204H
- II.1) PSY201H, 202H
- 2) PSY260H (for students entering 1978-79 or later)
- 3) One course, full or half, from each category:
 - a) Biological Bases of Behaviour. PSY251H/252H/290Y
 - b) Developmental and Social Processes. PSY210Y/220Y/230H
 - c) Cognitive Processes. PSY270Y/280Y
- III.1) One course, full or half, from each category:
 - a) Biological Bases of Behaviour. PSY354H/390H/392H/393H/394H/JPB359Y
 - b) Developmental and Social Processes. PSY311H/314H/315H/316H/317H/320H/321H/323H/324H/332H/340Y/341H/410H/420H/440H
 - c) Cognitive Processes. PSY314H/315H/373H/374H/375H/393H
- 2) One laboratory course. PSY319H/329H/379H/389H/399H/JPB359Y
- 3) Sufficient additional courses in Psychology to meet the requirement of 10½ (10 for students entering before 1978-79) full courses in Psychology. At least five must be at a level of 300 or 400.

Courses at 300 and 400 level which satisfy the requirements of III.1 and III.2 can count toward the requirement of at least five full courses at level 300 and 400. Psychology courses which meet the requirements in I and II can be counted toward the total requirement of 10½ full courses in Psychology.

Requirements of II.2 and II.3 are recommended in second year. Candidates for the specialist programme should meet with their faculty advisor and have their programme approved in writing.

Major programme

6 full courses or the equivalent number of half courses are required for a major in psychology. PSY100Y must be one of these six courses. Students must satisfy sections II.2 and II.3 of the specialist programme. Courses which satisfy sections II.2 and II.3 can be counted toward the requirement of six full courses. At least two of these six courses must be at level 300.

Animal Behaviour*Specialist programme (Interdisciplinary)*

10 1/2 or 11 full courses or the equivalent are required in a programme of 20 courses:

PSY100Y, BIO100Y

BIO251Y, PSY251H/252H

(PSY201H, 202H)/(BIO360H, 361H)

PSY260H/290Y

BIO322H, 323H

BIO340Y

BIO321Y/(PSY390H, PSY399H)

JPB359Y

PSY354H/PSY399H (note prerequisites)

PSY400Y/(BIO480H, BIO481H)

Other BIOLOGY and PSYCHOLOGY courses of direct interest to students in Animal Behaviour

BIO230H, 231H, 235Y, 351Y

BIO322H, 431H, 442H, PSY280Y

PSY323H, 389H.

Religious Studies*Specialist programme*

9 courses are required in a 20-course programme, 2 of which may be courses related to Religious Studies that are cross-listed from other departments. Five out of the nine courses must be above the 200 level. These courses must cover more than one major religious tradition (e.g. Buddhism, Christianity, Judaism), the various types of method (historical, philosophical, social scientific), and a concentration on either a single tradition or a comparative study of more than one tradition. Suggested areas of specialization include:

Asian Religion

Christian Thought

Religion and Culture

Religious Ethics

Religious Studies and Philosophy

World Religions

Major programme

5 courses are required in a programme of at least 15 courses, one of which may be a course related to Religious Studies that is cross-listed from another department. Two out of the 5 courses must be above the 200 level. The major programme is designed to concentrate on one religious tradition while acquainting the student with more than one religious tradition.

Minor programme

3 REL courses.

Religious Studies and Philosophy*Combined Specialist programme*

14 courses are required in a 20-course programme. For more information see the departmental Handbook.

NOTE: Students pursuing Specialist, Combined Specialist or Major Programmes must fulfill not only the departmental or college programme requirements, but also the general degree requirements listed at the front of the calendar.

Students pursuing programmes in Religious Studies should consult a faculty advisor annually and submit their course selections to the Department for approval.

Erindale College provides Specialist, Major and Minor programmes in Religious Studies. For the completion of certain programmes it may be necessary to supplement the Erindale course offerings with selected courses on the St. George Campus.

Slavic Studies

Russian Language and Literature

Specialist programme

10 SLA courses are required in a programme of at least 20 courses:

SLA100Y/220Y. Recommended SLA110Y

SLA210Y, 220Y

SLA310Y, 320Y. Recommended: SLA314H, 317H, 363H, 367H.

Students who have taken Grade 13 Russian are admitted to SLA220Y.

Erindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study.

Major programme

7 SLA courses are required in a programme of at least 15 courses.

Slavic Languages and Literature

Specialist Programme:

Consult Department of Slavic Languages and Literatures

Sociology

Specialist programme

9 SOC courses are required in a programme of at least 20 courses:

SOC200Y/201Y - *Strongly recommended* to be taken during the second year.

SOC313Y

At least three SOC courses in one of the five subspecialty areas, with at least one of the three from the 300/400 series.

The subspecialty areas are:

Theory and Methods: SOC200Y, 201Y, 203Y, 313Y, 321H, 322H, 410H, 411H.

Societies: SOC220Y, 304Y, 312Y, 324Y, 345Y, 422H, 423H.

Interaction: SOC202Y, 214Y, 215Y, 309Y, 315Y, 316Y, 329H, 420H, 421H.

Inequality: SOC212Y, 301Y, 303H, 330H.

Urban Life: SOC205Y, 206Y, 207Y, 305Y, 311Y, 328H, 329H, 340Y, 346Y, 422H, 423H.

At least two SOC300/400 series courses, at least one of which must be a "Selected Topics" seminar from the 400 series.

Major programme

6 SOC courses are required in a programme of at least 15 courses:

SOC200Y/201Y

SOC313Y

At least two SOC courses in one of the five subspecialty areas listed under the Specialist Programme.

Minor programme

3 courses are required in a programme of at least 15 courses:

SOC101Y and any two other SOC courses.

Communications*Major programme*

6 courses are required in a programme of at least 15 courses:

SOC101Y,

SOC152Y

SOC200Y/201Y

SOC313Y

Two of the following: SOC284Y, 309Y, 332Y, 333Y, 334Y

NOTES: For SOC201Y, ECO220Y/GGR202H, 212H/STA202H, 212H will be regarded as equivalent.

SOC—S101Y is a prerequisite for all other SOC courses. Instructors in subsequent courses will assume that the student has the background knowledge provided by the course's prerequisites.

Spanish*Specialist Programme*

9 SPA courses are required in a programme of at least 20 courses:

The Spanish requirement for a joint specialization is 7 SPA courses.

Major programme

5 SPA courses are required in a programme of at least 15 courses.

Minor programme

Any three courses.

Statistics, Applied*Specialist programme*

Nine courses are required in a programme of at least 20 courses:

MAT130Y/132Y/134Y/135Y/138Y/139Y; CSC139H/149H; (STA202H recommended)

STA242Y; MAT228H, 234Y/235Y/239Y; CSC158H

STA302H, 312H, 322H(G), 347H, 402H, 412H, 437H(G), 432H/452H(G)/457H(G)/462H(G); CSC248H/258H/336H.

Major programme

Six courses are required in a programme of at least 15 courses:

MAT130Y/132Y/134Y/135Y/138Y/139Y;

CSC139H/149H; (STA202H recommended)

STA242Y; MAT234Y/235Y/239Y; CSC158H; (MAT228H recommended)

(STA302H and STA402H)/(STA312H and STA412H);

Equivalent of 1 full course from STA322H(G), 347H, 432H, 437H(G), 457H(G).

Specialist programme (Mathematical Sciences)

See the listing for Mathematics.

Survey Science

Specialist programme(Old) - for students entering before 1980. 15 courses in a programme of at least 20 courses:

CSC108H/139H/148H/149H, EPS120Y/GGR100Y/175Y, GGR373H/SUR340H, MAT132Y/135Y/138Y,

PHY110Y/118Y/135Y/140Y,

STA242Y, SUR200Y, 220Y, 230Y, 240H, 250H

SUR303Y, 305H, 320H, 350H, 360H

SUR405H, 410H, 420Y, 430H, 440H

Specialist programme (New) - for students entering in 1980 and thereafter.

13.5 courses in a programme of at least 20 courses:

CSC139H/149H, EPS120Y/GGR100Y, MAT132Y/138Y,

PHY118Y/140Y, ECO100Y, STA242Y, INE203H/205H, SUR200Y,

210H, 220Y, 230Y, 250H, 303Y, 310Y, 405H, Survey Project (400H Series), and Seminar (400H series).

Major programme

6.5 courses in a programme of at least 15 courses:

MAT132Y/138Y, PHY118Y/140Y, STA242Y, SUR200Y, SUR210H, SUR230Y, and SUR220Y/303Y/310Y.

Erindale Approved Areas of Study

The following constitute Specialist or Major programmes in "Approved Areas of Study".

Canadian Studies

Faculty Coordinator: Professor J. Dutka

"The most valid and compelling argument for Canadian Studies is the importance of self-knowledge, the need to know and to understand ourselves."

The Canadian Studies Programme at Erindale offers both a specialist and a major concentration drawn from courses in Anthropology, Commerce, Economics, English, Fine Art, French, Geography, History, Philosophy, Political Science and Sociology. Interdisciplinary in nature, the programme is nonetheless designed so that students can fulfill entrance requirements of the Faculty of Education or the School of Graduate Studies by a careful selection of courses in other areas. Students wishing to complete a specialist or major certification in Canadian Studies must notify and register with the Faculty Advisor.

Specialist Programme

Eleven courses are required in a 20 credit degree programme:

a) In the first and second years:

- 1) HIS262Y (Canada, 1663-1970)
- 2) POL100Y (Introduction to Canadian Politics)
- 3) ENG252Y (Canadian Literature in English)
- 4) FRE161Y/FRE171Y (or, if an exemption is granted, a course in French Canadian literature in the original language)

b) In the third and fourth years:

- 5) GGR245Y (Urban Canada) or SOC220Y (Canadian Society)
- 6) INE401Y (a major research paper)
- 7) INE402Y (Interdisciplinary Seminar in Canadian Studies)
- 8-11) Four courses with a disciplinary, thematic or chronological coherence chosen, with the approval of the coordinator of the programme, from the list of approved courses offered on either the Erindale or the St. George Campuses.

Major Programme

Seven courses are required in a 15 credit degree programme:

- 1) HIS262Y (Canada, 1663-1970)
- 2) POL100Y (Introduction to Canadian Politics)
- 3) ENG252Y (Canadian Literature in English)
- 4) FRE161Y/FRE171Y (or, if exemption is granted, a course in French Canadian Literature in the original language)
- 5) GGR245Y (Urban Canada) or SOC220Y (Canadian Society)
- 6-7) Two courses chosen from those approved for the Specialist Programme, both of which must be at the 300-400 level.

For course descriptions of INE401Y and INE402Y, see under Interdisciplinary Studies.

Students may also be interested in the major programme in Literatures and Languages in Canada, administered through New College, but open to Erindale students. For further information, consult the Faculty Advisor.

Crime and Deviance

Faculty Coordinator: Professor W. Kalbach (Sociology)

This approved area of study is designed to provide a broad foundation for students who may have a vocational, academic and/or civic interest in issues of crime and its control.

This might include:

- (a) students who at a later stage may seek careers in the criminal justice system (e.g. police, probation and prison work);
- (b) students who at a later stage may wish to pursue more advanced work in areas related to, for example, criminology or social work;
- (c) students wanting to know more about the topics of the sociology of crime, particularly as these become issues of public policy.

Major Programme

A minimum of 8 full course equivalents in a 15-credit degree programme.

Five full course equivalents are required (including 2 prerequisite full course equivalents).

SOC101Y Introduction to Sociology

PSY100Y Introductory Psychology

SOC212Y Deviance and Control

SOC306Y Sociology of Crime and Delinquency

SOC303H Careers in Crime and Delinquency

PSY324H Aggression

Optional Courses: Three full course equivalents to be selected from the following:

SOC333Y Stigmatization, Liberation and Communication

PHL284H Contemporary Moral Issues

PHL370H Issues in the Philosophy of Law

PSY220Y Introduction to Social Psychology

PSY210Y Introduction to Development

PSY230H Introduction to Personality

PSY260H Introduction to Learning

PSY340Y Abnormal Psychology

Earth Resources

Faculty Coordinators: Professor S. Luk (Geography)

Professor G.W. Pearce (Earth & Planetary Science)

This programme is designed:

- (1) to acquaint students with problems related to the physical resources of the earth and to the use of these resources by man; and
- (2) to develop pertinent skills used in government resource agencies, consulting firms, and resource industries.

Specialist Programme (Geological Resources)

A minimum of twelve courses is required in a 20 credit programme. The required courses for this programme are:

CHM118Y General Chemistry

EPS120Y Introduction to Earth and Planetary Science

GGR100Y Introduction to Physical Geography

MAT132Y Calculus

Either

PHY118Y World of Physics

Or

PHY140Y Principles of Physics

EPS200H Introduction to Stratigraphy

EPS219H Mineralogy

EPS221H Optical Mineralogy

GGR201H Geomorphology: The Science of Landforms

GGR205H Soils

GGR207H Aerial Photo Interpretation

GGR214H	Climatology
EPS320Y	Petrology
EPS322H	Structural Geology I
	Either
GGR206H	Introduction to Hydrology
	Or
GGR301H	Environmental Geomorphology
	Either
EPS345H	Sedimentology
	Or
GGR302H	Fluvial Geomorphology
	Either
GGR233Y	Energy, Natural Resources, and Environmental Management
	Or
GGR332H	Development and Environment
	And
GGR334H	Water Resources Management

Supplementary Course Sequence: It is strongly recommended that students also take courses from one of the following groups:

- (1) *Biophysical Resources*
 - BIO100Y The Study of Life
 - BIO230H Ecology I
 - BIO231H Ecology II
 - BIO332Y Freshwater Biology
 - Either
 - GGR305H Biogeography
 - Or
 - GGR379H Advanced Field Methods in Physical Geography
- (2) *Resource Assessment Techniques*
 - GGR202H Statistics
 - GGR212H Applications of Statistics
 - GGR276H Introduction to Data Processing in Geography
 - GGR280H Cartography
 - GGR373H Theory of Remote Sensing
 - GGR383H Applications of Remote Sensing

Major Programme (Earth Resources)

A minimum of seven courses is required in a 15 credit degree programme. The required courses for this programme are:

EPS120Y	Introduction to Earth and Planetary Science
GGR100Y	Introduction to Physical Geography
EPS200H	Introductory Stratigraphy
EPS219H	Mineralogy
GGR201H	Geomorphology: The Science of Landforms
GGR205H	Soils
GGR206H	Introduction to Hydrology
GGR207H	Aerial Photo Interpretation
GGR214H	Climatology
	Either
GGR233Y	Energy, Natural Resources, and Environmental Management
	Or
GGR332H	Development and Environment
	And
GGR334H	Water Resources Management
	Either
GGR301H	Environmental Geomorphology
	Or
GGR302H	Fluvial Geomorphology

Supplementary Course Sequence: It is strongly recommended that students also take courses from one of the following groups:

(1) *Biophysical Resources*

BIO100Y The Study of Life
 BIO230H Ecology I
 BIO231H Ecology II
 BIO332Y Freshwater Biology
 Either
 GGR305H Biogeography

Or

GGR379H Advanced Field Methods in Physical Geography

(2) *Geological Resources*

CHM118Y General Chemistry
 MAT132Y Calculus
 EPS221H Optical Mineralogy
 EPS320Y Petrology
 EPS345H Sedimentology

(3) *Resource Assessment Techniques*

MAT132Y Calculus
 GGR202H Statistics
 GGR212H Application of Statistics
 GGR276H Introduction to Data Processing in Geography
 GGR280H Cartography
 GGR373H Theory of Remote Sensing
 GGR383H Applications of Remote Sensing

Latin American Studies

Faculty Coordinator: Professor D. Raby (History)

Major Programme

A minimum of 7 full course equivalents in a 15-credit degree programme.

Seven full course equivalents (for students with Grade 13 Spanish)

Eight full course equivalents (without Grade 13 Spanish)

*SPA220Y Composition and Oral Practice II (Prerequisite:
 SPA100Y/Grade 13 Spanish)

SPA280Y Latin American Civilization and Culture (in English)

SPA320Y Composition and Oral Practice III (Prerequisite:
 SPA220Y)

HIS290Y Introduction to Latin American History

HIS389Y Social Revolutions in Latin America

ANT210Y Anthropology of Art

INE390Y Independent Study

Supplementary courses:

The programme may be supplemented with one or more of the following courses: HIS391H Mexico - Independence to Revolution, 1810-1960

SPA366H Modern Spanish American Poetry

SPA382H Modern Spanish American Novel

SPA385H Spanish American Short Stories

***NOTE:** Native speakers of Spanish are required to substitute the equivalent of one full course at the 300- level in Spanish American literature for SPA220Y.

Native Studies

Faculty Coordinators: Professor R.M. Vanderburgh (Anthropology)
Professor W.B. White (History)

Issues involving Native peoples have become not only of contemporary concern, but have revived interest in the cultures and events of the past. This programme examines the cultures of the past and present, as well as the history and theoretical framework of the interaction of Native and colonizing peoples. The programme is interdisciplinary, combining the courses and approaches of Anthropology, History, Sociology, and Geography. It complements programmes with interests in North American studies, ethnic/racial history, and environmental studies. Students may pursue special interests through an independent study course.

Major Programme

A minimum of 7 full course equivalents in a 15-credit degree programme.

Required Courses:

ANT241Y Indians of North America

SOC330H Race & Ethnic Relations

HIS330Y Indians and Indian Policies in American History (offered in alternate years)

Either

ANT304H Change in Canadian Indian Societies (offered in alternate years)

Or

ANT319H Problems in the Study of North American Indians (offered in alternate years)

Optional Courses:

Four full course equivalents to be selected from the following:

ANT201Y North American Prehistory

ANT204Y Social and Cultural Anthropology

ANT228H Archaeological Field Work

GGR351Y Historical Geography of Northeastern North America

HIS391H Mexico: Independence to Revolution, 1810-1960

SOC304Y Change and Conflict in Contemporary Society

NOTE: INE390Y may be substituted for one of the four optional courses required for this programme.

Population and Society

Faculty Coordinator: Professor W. Kalbach (Sociology)

This approved area of study is designed:

- (1) to introduce students to the place of population issues in modern society and
- (2) to develop in students basic demographic skills operable in academic, social service, planning and marketing agencies.

Major Programme

A minimum of 7 full course equivalents in a 15-credit degree programme.

Seven full course equivalents (including prerequisites)

SOC101Y Introduction to Sociology

GGR255H Perspectives on Current Population Issues

HIS248Y (I) The Industrial Revolution

SOC220Y Canadian Society

Either

SOC200Y Introduction to Social Research

Or

SOC201Y Social Statistics (offered alternately)

SOC312Y Population and Society

ANT305Y Technology, Society and Culture

SOC422H Selected topics in Urban Sociology and Population I, (a seminar course focussing on the issue of ageing).

Supplementary course sequence: It is strongly recommended that students also take one of the following groups of related courses:

Demographic Prehistory

ANT203Y (I) Physical Anthropology

ANT334Y Skeletal Biology

ANT433H Palaeodemography (offered in alternate years)

NOTE: the student is encouraged to take ANT203Y in Year I

Cultural Relations

ANT204Y (I) Social and Cultural Anthropology

ANT242Y Modern Cultures of Canada

SOC330H Race and Ethnic Relations

NOTE: the student is encouraged to take ANT204Y in Year I

Canadian Urban Society

GGR245Y (I) Urban Canada

SOC205Y Urban Sociology

SOC345Y Canadian Communities

NOTE: the student is encouraged to take GGR245Y in Year I

Race and Ethnic Relations

PSY100Y Introductory Psychology

PSY220Y Introduction to Social Psychology

PSY321H Interpersonal Behaviour

SOC330H Race and Ethnic Relations

Renaissance Studies

Faculty Coordinator: Professor L. T. McCormick (Italian Studies)

A minimum of seven full course equivalents in a 15 credit degree programme.

Three full course equivalents are required:

HIS357Y The Renaissance

ITA275Y The Culture of the Italian Renaissance (in English)

INE390Y Independent Study

Optional Courses:

Four full course equivalents to be selected from the following, with no more than two full course equivalents from any one discipline

ENG206Y English Literature of the Renaissance

ENG212Y Shakespeare

ENG302Y English Poetry and Prose, 1500-1600

ENG304Y English Poetry and Prose, 1600-1660

ENG332Y English Drama to 1642

ENG413Y Studies in Renaissance Literature

FAH200Y European Art from 1400-1750

FAH330Y Raphael and Michelangelo as Painters

FAH331H Fifteenth and Sixteenth Century Italian Sculpture

FAH332H Studies in Baroque Painting

FAH336H The Ideal City

FRE220Y The Literature of Classicism

HIS230Y Politics and Social Change in England, 1530-1800

HIS240Y Early Modern Europe, 1450-1815

ITA323H Machiavelli, Castiglione and Guicciardini

ITA326H Petrarca

ITA420Y Renaissance Epic Poetry

ITA427H Boccaccio

SPA350Y Spanish Literature of the Golden Age

Language Facility: a reading knowledge of Latin or of a major European language other than English is required at a level equivalent to a 100-series course (Latin recommended). The degree of facility will be assessed by the Discipline Representative of the language involved.

Urban Studies

Faculty Co-ordinator: Professor Gunter Gad (Geography)

The Urban Studies Programme is characterized by a unifying theme, not by any one perspective or methodology. The unifying theme for Urban Studies could be described as the study of the forces which give rise to towns and cities, the public policies directed at urban settlements, and the effects these particular forms of settlement have on society in a broad sense. The Urban Studies Programme enables the student to apply the viewpoints and methods of various disciplines to urban phenomena.

At the University of Toronto there is no single urban studies department. The Programme relies on courses with urban content developed by the various disciplines (Economics, Fine Art, Geography, History, Political Science and Sociology) and special courses offered at Innis College.

Students may graduate with a Specialist or Major programme in Urban Studies (for detailed requirements see below). Given careful programme planning it is possible to graduate with a double Specialist in Urban Studies and one of the traditional disciplines. The advantage of the double Specialist is the combination of an innovative, broad perspective on urban phenomena with a traditional methodological base. - It is relatively easy to combine either an Urban Studies Specialist with a discipline Major programme, or the other way round, a discipline Specialist with an Urban Studies Major programme.

It is advisable to plan an Urban Studies Specialist Programme, and especially a double Specialist, as early as possible, at least by the end of first year. Many of the urban courses have prerequisites that must be met or recommended courses which aid in preparation. For example, students interested in Urban Economics (ECO333Y) should be aware that the course has three prerequisites (ECO100Y, 200Y, MAT132Y) and one corequisite (ECO220Y/STA242Y). Students are strongly urged to consult the Urban Studies faculty co-ordinator (Prof. Gunter Gad) for programme planning and advice about the variety of different course combinations.

Specialist programme

Ten courses are required in a programme of at least 20 courses.

1. Methodology courses: 1 full course equivalent of the following:
ECO220Y/GGR202H, 212H/SOC201Y/STA202H, 212H
2. Options: 9 full course equivalents chosen from at least 3 of the following groups; not more than 5 full course equivalents from one group.
ECO333Y
FAH211H, 256H, 336H, 365H, 370H
GGR220Y, 245Y, 250Y, 324H, 340Y, 346H, 349Y, 352H, 354H, 441H
POL221H, 308Y, 413Y
SOC205Y, 312Y, 328H, 340Y, 345Y, 422H, 423H

Major programme (Urban Studies)

6 courses are required in a programme of at least 15 courses.

These courses must be chosen from at least 3 of the option groups listed above.

Not more than 3 courses from one group may be counted.

Other courses not listed above and some offered at the St. George Campus may be included with the permission of the faculty co-ordinator and the Urban Studies Programme Committee.

Special Erindale Programmes

Concentrated Programmes In The Humanities And In The Social Sciences Leading To A Bachelor Of Arts Degree

Faculty Coordinators: Professor R.W. Van Fossen (Humanities Programme)
Professor L.J. Brooks (Social Sciences Programme)

Well-qualified and highly-motivated students seeking a thorough grounding in either the Humanities or the Social Sciences before proceeding to further professional or academic training may be eligible for Erindale's concentrated programmes in these areas, leading to a fifteen-credit B.A. in two years.

Students seeking admission to either of these programmes should have a Grade 13 (Ontario) final average of 72% or the equivalent. However, in order to enter the second session of the programme, *all* students must have completed five full course equivalents with a GPA of 2.5.

Students are expected to complete fifteen courses during the winter and summer sessions. They may take a maximum of two courses each summer and a maximum of six courses during the winter session. Students who plan to follow either programme are strongly advised not to undertake part-time employment during the duration of their academic programme, except if and when taking a single course during the summer session.

Humanities Programme:

To secure a well-rounded preparation in the Humanities, a student will be expected to:

- (a) complete the requirements of the Erindale curriculum, including a major concentration or a major in an approved area of study, and a full course equivalent in each of the Divisions of Sciences and Social Sciences.
- (b) complete at least one credit in each of the following:
 - (1) a language
 - (2) literature or art
 - (3) history
 - (4) philosophy or religion

For the distribution of these courses among disciplines, consult the advisor.

Social Sciences Programme:

To secure a well-rounded preparation in the Social Sciences, a student will be expected to:

- (a) complete the requirements of the Erindale curriculum, including a major concentration or a major in an approved area of study, and a full course equivalent in each of the Divisions of Sciences and Humanities.
- (b) complete at least one credit in each of the following:
 - (1) mathematics or statistics or computer science
 - (2) economics or political science
 - (3) sociology
 - (4) geography or anthropology

For the distribution of these courses among the disciplines, consult the advisor.

In the final session in either programme, a course consisting of an individual research project under supervision may be undertaken. A student admitted to either of these special programmes will be assigned a faculty advisor who will assist in developing the programme of study and in guiding the student's academic progress.

Erindale College — Sheridan College Combined Art and Art History

This is the first co-operative University and Community College programme in Ontario.

A main objective is to provide students with the academic background and the practical training necessary to become teachers of art in Ontario schools. Not all students entering the programme, however, will necessarily enter the teaching profession, and this has been considered in planning course content. The programme can also provide preliminary training for careers in galleries and museums, or can form the basis of a general art education.

Students must meet the admission requirements of Erindale College, which include a complete Grade 13 standing, as well as those of Sheridan College. They must submit separate applications to both institutions, and also must register in both places. They must make certain that their names are on a master list in the Registrar's Office, Division of Humanities. In order to be eligible for enrolment in a Sheridan Fine Art Studio course, one must be a member of the Art and Art History Programme.

To obtain a B.A. degree at Erindale, 15 credits are required. Students in the Art and Art History Programme must take five credits in Studio Art at Sheridan College (FAS courses) and at least three credits in Art History at Erindale College (FAH courses). The graduates of the programme who take three-year degrees are eligible to enter the Type B Certificate course at the Faculty of Education of the University of Toronto. To be eligible for the Type A Certificate, the student must complete a four-year B.A. with additional work in Fine Art. (Candidates interested in becoming teachers are urged to consult the Calendar of the Faculty of Education, and to seek advice there, at an early stage of their academic careers.)

Bus transportation between the two colleges is available at a small charge. Students should realize that the greater amount of work will be done at Erindale College and, therefore, should plan their programmes and accommodations accordingly.

For course descriptions, see the listing for Fine Art under "Subjects and Courses".

If further information is required, please contact the Office of the Registrar, Division of Humanities, Erindale College.

Survey Science Programme

In 1972, Erindale College inaugurated a 20-course Specialist Programme in Survey Science that is unique in Ontario and one of only four university programmes in professional surveying in the entire country.

The programme has the approval and full support of the association of Ontario Land Surveyors. The academic requirements of the Association for professional O.L.S. (Ontario Land Surveyor) registration under Regulation 35/73 of the Surveyors Act are fully satisfied by courses offered at Erindale.

Although the primary objective of the Survey Science Programme is to prepare students for entry into the practice of surveying in Ontario at the professional level, it also provides a strong university education in surveying for students who expect to practise professional surveying outside the province.

First-year students with good academic standing are eligible to take SUR200Y, and are strongly advised to do so if they plan to pursue a complete programme. CSC139/149H, EPS120Y/GGR100Y, MAT132Y/138Y, and PHY118Y/140Y should also be taken in the first year of study.

Details of courses offered will be found under Survey Science in the Section on Subjects and Courses.

For further information, students should contact the faculty advisor, Professor G. Gracie - 828-5299.

Other Programmes

Study Elsewhere Programme

The Study Elsewhere Programme is designed to allow students to pursue their discipline of concentration at another university, normally outside of North America, for one academic year. The Programme also provides for study in Quebec or Mexico. It is intended to enhance the university experience of each participant through learning from scholars at other institutions and through living in a new and different milieu. The faculty has intended the Study Elsewhere Programme for students who have completed a minimum of 9 credits and who intend to attain a degree of specialization in their further studies. The Committee, therefore, requires participants in the Programme to have completed a minimum of three courses in a discipline or in the area of study which they intend to pursue elsewhere.

Full information concerning this programme can be obtained from Dr. L.T. McCormick, Registrar, Division of Humanities, Erindale College (828-5244), the St. George Campus Calendar, and the Secretary of the Committee, Miss E. Ishibashi (978-3387).

Each student authorized to participate in the Study Elsewhere Programme must pay a fee of \$100.00 to the Comptroller and present his receipt to his College Registrar prior to departure.

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DETAILS OF COURSES

ANTHROPOLOGY

Faculty Advisor: Professor R.M. Vanderburgh

Anthropology is the study of human biology and culture and the interaction between the two. *Physical Anthropology* focuses on the evolution of man and his nearest primate relatives, revealed by fossil remains, and on the constitution, physiology and variation of living populations. *Cultural Anthropology* is the study of the way of life of peoples throughout the world: technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g., habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest time. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant and *The Study of Anthropology* by Morton Fried, available at the Erindale College Library.

The following Anthropology courses are considered as Science courses: ANT203Y, 228H, 229H, 231H, 328H, 330H, 332Y, 334Y, 336H, 338Y, 339H, 430Y, 433H, 434H.

NOTE: Consult current timetable for current offerings.

Please see Section 7 for details of Programme Requirement.

- ANT100Y **Introduction to Anthropology** 2L, 1T
A survey of the field of anthropology includes physical anthropology, archaeology, linguistics and social anthropology. Physical anthropology will explore human origins and adaptations. Archaeology outlines the development of human culture from earliest stone tools to the development of civilization. Anthropological linguistics searches for the relationship between language and culture. Social anthropology examines diversity and similarity in contemporary cultures.
- ANT201Y **North American Prehistory** 2L
(I) A survey of culture history and process from the first appearance of people in North America until the coming of the Europeans. Regional adaptations of prehistoric North American populations are explored.

- ANT203Y **Physical Anthropology** 2L, 1T
(I) A survey of the field of physical anthropology. Topics will include human evolution and palaeontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation.
- ANT204Y **Social and Cultural Anthropology** 2L, 1T
(I) A general introductory course emphasizing social and political organization, economics, and the development of theory. Specific cases of social dynamics are drawn from both traditional and contemporary societies.
- ANT207H **Introduction to Ethnographic Field Techniques** (Offered in alternate years) 2L
(I) Oriented around student projects; covers multiple aspects of field and research methodology (problem design, interviewing, record-keeping, quantitative analysis, etc.).
- ANT209Y **Religious Behaviour and Systems of Thought** (Offered in alternate years) 2L, 1T
(I) A comparative view of myth, ritual and philosophical systems with emphasis on the religion of non-literate peoples.
- ANT210Y **The Anthropology of Art** (Offered in alternate years) 2P
(I) Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts.
- ANT212Y **Traditional and Contemporary African Cultures** (Offered in alternate years) 2L
(I) Survey of traditional African cultures and institutions, and the changes involved in the current movement toward industrialization.
- ANT226Y **Old World Prehistory** 2L
(I) Human origins; regional adaptations of prehistoric cultures in Africa, Asia, Europe and Oceania.
- ANT228H **Archaeological Fieldwork** 2P
Practical field experience on a prehistoric archaeological site during the last two weeks of August and weekly evening meetings until December. *Prerequisite*: P.I.
- ANT229H **Archaeological Laboratory Analysis** 1L, 2P
(I) Analysis and description of archaeological material. *Prerequisite*: ANT228H and P.I.
- ANT231H **Laboratory Methods in Physical Anthropology** 2P
(I) Recommended for those who may specialize in anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. *Corequisite*: ANT203Y.
- ANT241Y **Indians of North America** 2L
(I) Survey of native cultures and discussion of the role of environmental and historical factors.
- ANT301H **Visual Communication** (Offered in alternate years) 2L, 1P
Emphasis on the use and application of basic audio-visual resources in documenting social process. Film and other graphic data will be analyzed and possible projects may involve the use of still, movie, video-tape filming, tape-recording and archival sources. *Prerequisite*: ANT100Y and P.I.
- ANT304H **Change in Canadian Indian Societies** (Offered in alternate years) 2L
A seminar course examining the application of such concepts as "acculturation", "adaptation" etc. to Canada's changing Native population. *Prerequisite*: ANT204Y or ANT241Y, and P.I.
- ANT305Y **Technology, Society and Culture** (Offered in alternate years) 3P
The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development. *Prerequisite*: P.I.

- ANT319H Problems in the Study of North American Indians** (Offered in alternate years) 2L
The literature and study of North American Indians; lecture and discussion of topics such as environmental relationships, demography, religious movements, cultural ecology, commercial and communication networks; individual research on a topic chosen in consultation with the instructor; ANT397H may be taken concurrently to accommodate particularly ambitious research papers. *Prerequisite*: ANT241Y.
- ANT324H Archaeological Interpretation** 2T
A survey of methods and ideas about the reconstruction of the past from the archaeological record including subsistence, population, social organization, religion, settlement plan and organization, etc. *Prerequisite*: ANT228H, ANT201Y/ANT226Y and P.I.
- ANT327H Origins of Food Production** 2L
Examination of the history of food production in the Old and New World, and its significance to human civilization. *Prerequisite*: ANT201Y or ANT226Y.
- ANT328H Advanced Archaeological Fieldwork** 2P
Conducted concurrently with ANT228H. Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. *Prerequisite*: ANT228H and P.I.
- ANT330H The Biology of Sexual Differences** (Offered in alternate years) 2L
An exploration into the bases of human sexual differences, considering both genetics and environment. *Prerequisite*: ANT203Y and P.I.
- ANT332Y Human Origins** 2L, 1P
A survey of human palaeontology and the evolutionary stages through which man passed in becoming *Homo sapiens*. *Prerequisite*: ANT203Y.
- ANT334Y Skeletal Biology** 1L, 2P
Includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population. *Prerequisite*: ANT203Y or P.I.
- ANT336H Human Heredity, Evolution and Variation** 2S
The principles of human population genetics, evolution, and diversity are related to current events. *Prerequisite*: ANT203Y, 231H, and P.I.
- ANT338Y Primate Biology** (Offered in alternate years) 3P
An introduction to the biology of non-human primates, including the study of soft skeletal anatomy of representatives of different taxa of extant primates. *Prerequisite*: ANT203Y and P.I.
- ANT339H Human Adaptability** 2L
A survey of the nature and range of biological variation in modern man. *Prerequisite*: ANT203Y and P.I.
- ANT343H Comparative Sex Roles** (Offered in alternate years) 2L
Various theoretical approaches to the study of sex roles in traditional, modernizing, and industrial societies. *Prerequisite*: ANT100Y. *Exclusion*: ANT343Y.
- ANT397H Independent Study**
Supervised reading on selected anthropological topics. *Prerequisite*: Permission of Faculty Advisor.
- ANT398Y Independent Reading**
Supervised reading of selected anthropological topics. *Prerequisite*: Permission of Faculty Advisor.
- ANT399Y Independent Research**
Supervised research in anthropology. *Prerequisite*: Permission of Faculty Advisor.

- ANT430Y **Special Problems in Physical Anthropology**
Supervised independent research in Physical Anthropology for students requiring science credit. *Prerequisite*: P.I.
- ANT433H **Palaeodemography** (Offered in alternate years) 2S
The study of prehistoric human population. The course will explore aspects of mortality and life span in relation to age and sex ratios of human populations. *Prerequisite*: ANT334Y or P.I.
- ANT434H **Palaeopathology** (Offered in alternate years) 2S
The study of diseases of ancient populations, and the detection and interpretation of human skeletal pathology. Four facets are: 1) the comparison of populations, 2) the influence of disease on culture, 3) the temporal and geographical distribution of diseases, 4) clinical uses of the data. *Prerequisite*: ANT334Y or P.I.
- ANT490Y **Seminar on the History of Anthropological Theory and Method** 2S
(Offered in alternate years)
Prerequisite: P.I.
- ANT499Y **Advanced Independent Research** T
For students whose original research is leading toward a publishable report. *Prerequisite*: Permission of Faculty Advisor.

APPLIED MATHEMATICS

(See Mathematics)

- APM251Y **Applied Mathematics I** 2L, 1T
Ordinary differential equations of the first order. Higher order linear differential equations and systems, infinite series, laplace transforms, lagrangian dynamics, applications. *Exclusion*: MAT244H, 214H, 219H, 235Y. *Prerequisite*: MAT132Y(C or better)/138Y. *Corequisite*: MAT239Y.
- APM311H **Partial Differential Equations** 2L, 1T
Partial differential equations of applied mathematics, mathematical models off physical phenomena, basic methodology. *Exclusion*: APM351Y, 331H, 346H. *Prerequisite*: MAT235Y/MAT239Y and 214H.
- APM351Y **Applied Mathematics II** 2L, 1T
Hyperbolic, parabolic, elliptic partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Green's functions, examples drawn from Physics and Engineering. *Prerequisite*: APM251Y.

ASTRONOMY

Faculty Advisor: Professor J. R. Percy

Astronomy, of all the sciences, is perhaps the most wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education. With this in mind, we offer courses of interest to every student at Erindale.

Three of these are introductory courses. AST100Y is a course in which students can learn about the universe even though they do not have a scientific bent. The course has no prerequisite, is largely

descriptive, and covers the full range of astronomical topics. AST200H is also designed for students whose principal interests lie outside the sciences, particularly students who wish to limit themselves to a half course. This course presents up-to-date topics in some detail, and answers often-asked questions. Since this course is given in *the evening*, it is of particular interest to part-time students. For students with a scientific interest and background, AST120Y provides a deeper insight into the physical nature of planets, stars and galaxies, and also provides some understanding of the tools and methods used by the astronomer.

Courses of a more specialized nature are also available. AST251H is a unique interdisciplinary course which examines the broad topics of the nature of life, its origin and evolution on earth, and its possible existence elsewhere in the universe. It is intended for students who have some background in the behavioural, biological or physical sciences, either in grade 13 or in university. At a more advanced level, AST320H may be taken. It is intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but requires no previous introduction to astronomy. We also recommend EPS237H as an excellent introduction to planetary astronomy.

Students who wish to take a major or specialist programme in Astronomy and Astrophysics should consult the Astronomy Faculty Advisor at Erindale, as early as possible during their first year.

Please see Section 7 for details of Programme Requirement.

- | | | |
|---|---|--------|
| AST100Y | Introduction to Astronomy | 2L, 1T |
| A general survey of modern astronomy which gives a descriptive treatment of the nature of planetary and stellar systems and the present conception of the structure of the universe. This course is intended for students with no science background or those who do not intend to specialize in science. It is not open to students who are currently enrolled in or have completed a 100 or higher-series course in physics or a 200 or higher-series course in chemistry. <i>Exclusion:</i> AST120Y/200H. | | |
| AST120Y | A Survey of Astronomy and Astrophysics | 2L, 1T |
| A general survey of astronomy in which concepts in basic physics are applied to a treatment of the solar system, stars and stellar systems, and the structure of the universe. This first-year course is intended for students who already have some background in science or those who are currently enrolled or in the future will be enrolling in science courses. <i>Exclusion:</i> AST100Y/200H. <i>Prerequisite:</i> Grade 13 MAT R & F, Grade 13 PHY. | | |
| AST200H
(I) | The Universe - an Appreciation | 2L |
| A topical course in astronomy designed for students in disciplines other than the sciences. The emphasis will be on fields of current interest in astronomy with the aim of interpreting recent and forth-coming developments. This course is not available to students who are enrolled in or have completed a 200 or higher-series course in physics or chemistry. Contributes to Science credits for distribution purposes only, and not to B.Sc. <i>Exclusion:</i> AST100Y/120Y. | | |
| AST251H | Life and the Universe (Offered in alternate years)(Formerly AST250Y) | 2L |
| The course examines several questions of broad relevance to the physical and biological sciences: the origin of the chemical elements; the formation of simple and complex molecules in astronomical environments; the origin, nature and evolution of planetary systems; the origin and nature of life and life processes; the search for extraterrestrial life through planetary exploration and interstellar communication. <i>Exclusion:</i> AST250Y, NEW250(G), NEW251H(G). <i>Recommended preparation:</i> A basic knowledge of physical and/or biological science at the grade 13 level or beyond. | | |
| AST320H | Stellar Astrophysics and Cosmology (Offered in alternate years) | 2L |
| Current theories of the structure and evolution of the stars, with attention given to the final stages of evolution, such as white dwarfs, neutron stars and black holes. Modern theories of the universe, and their observational basis. This course is intended for students specializing in the mathematical, physical or earth sciences. <i>Exclusion:</i> AST322H(G). <i>Prerequisite:</i> MAT138Y, PHY140Y. | | |

AST425H Research Topic in Astronomy

Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus. *Corequisite*: AST420Y(G).

BIOLOGY

Faculty Advisors: Professors W.R. Cummins and G.K. Morris

Biology is the science of living organisms - their kinds and relationships, origins and evolution, structure and development, and their functions and mutual relationships in which they occur. Biology relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease. Living organisms may be studied from a variety of viewpoints such as biochemical, physiological, ecological, genetical, taxonomical, structural, and developmental, and from a variety of organizational levels from populations and individuals through organs, tissues, cells, and organelles, down to molecules.

Botanists and zoologists at Erindale cooperate closely in organizing courses and programmes in Biology which stress the relationships of living organisms in terms of structure, form, function, and environment at many levels of organization.

There is a variety of alternatives available to students of Biology. By taking 7 courses from the selection outlined in Section 7 of this calendar, students may satisfy the requirements for a Major Programme in Biology. This major programme can be conveniently combined with a second major programme from another discipline. Students who intend to become high school Biology teachers can, by taking the 8 core Biology courses listed under the Specialist Programme plus one additional full Biology course, meet the requirements for a Type A Certificate from the Ontario Department of Education. A student can, by completing the Specialist programme in Biology presented in Section 7 of this calendar, obtain a four-year Bachelor of Science degree with the designation "Biology Specialist" on the transcript. Finally, students may elect to carry out an interdisciplinary (Biology-Psychology) specialist programme in Animal Behaviour; successful completion of the courses listed (see Psychology) will be recognized by the designation "Animal Behaviour Specialist" on the transcript. Staff will assist students in organizing appropriate groups of courses to accommodate specialized interests. Students following the Biology Major and Specialist Programmes must officially enrol in these programmes. This should be done by the beginning of their second year on College registration forms and directly with the Department in Room 3032.

Because of high demand and space limitation, it may be necessary to limit enrolment in some Biology courses. In these cases only those students who obtain the highest grades in the prerequisite courses will be enrolled.

Please see Section 7 for details of Programme Requirement.

BIO100Y The Study of Life

2L, 3P

Presents an integrated study of life at several levels: molecular, cellular, organismal, and social. Topics include ecology, phylogeny, behaviour, physiology, cell biology, heredity, evolution, and development. Practical sessions will introduce a wide range of biological material and techniques; tutorials will help integrate laboratory and lecture.

JBG130Y Man and Environment

2L, 1T

Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, pollution are considered and illustrated by case studies from different parts of the world. *Exclusion*: GGR101Y/173Y.

BIO230H Ecology I

2L, 3P

An introduction to ecological principles. The composition, structure and environments of natural ecosystems will be surveyed. Laboratory work will emphasize field investigations of communities in the immediate region. *Prerequisite*: BIO100Y. *Recommended preparation*: BIO235Y.

- IO231H Ecology II** 2L, 3P
A continuation of general ecological principles, specific studies of succession, competition, predation, and dynamics of populations and communities. Laboratory sessions will deal with ecological sampling techniques, experimental ecology and population studies. *Prerequisite:* BIO230H.
- IO235Y Field Biology** 2T, 3P
(I) A field and laboratory course to acquaint the student with plants and animals in the local environment. Collection techniques and observation are emphasized in the field. Identification of major groups of animals and plants is studied in the laboratory. Students will be required to make a collection of some group of organisms.
- IO241Y Cell Biology** 2L, 3P
Cell structure and function. Cell organization at the organelle and molecular level will be considered in bacterial, animal, and plant cells. Topics include the structure and function of membranes, nuclei, mitochondria, plastids, and other organelles. In the laboratory the student will become familiar with current techniques of cell biology. Enrolment limited. *Prerequisite:* BIO100Y.
- IO250Y Plant Form and Function** 3P, 2L
A survey of the major plant groups from the higher algae up to the Angiosperms. The structure and life history of representatives are examined, including discussions of the functions of the major tissues and organs. The evolution of plants is discussed with particular reference to fossils. *Prerequisite:* BIO100Y.
- IO251Y Animal Form and Function** 2L, 3P
The "design" and adaptive consequences of vertebrate and invertebrate structures are examined. Mechanisms of prey capture, feeding, transport, gas exchange, body support, locomotion, and sensory perception are compared at the organ level. The student is encouraged to see beyond description in order to develop an appreciation of the adaptiveness of body parts. *Prerequisite:* BIO100Y.
- IO270Y Biology of Protista** 2L, 3P
A survey of the major groups of microorganisms including bacteria, viruses, protozoa, lower algae and fungi. The structure and life history of representative organisms are examined. The importance of the biology of microbes will be discussed especially with regard to ecology, pathogenicity and the scientific impact of studying certain "Microbial model organisms" in elucidating important basic principles in biology. *Prerequisite:* BIO100Y.
- IO300H Terrestrial and Freshwater Biology**
This course will be offered at the Leslie M. Frost Natural Resource Centre, near Dorset, Ontario. Emphasis will be on principles and methods in plant and animal ecology, and gaining familiarity with local flora and fauna. Terrestrial and freshwater ecosystems will be studied. Opportunity will be provided for students to undertake projects of their own. Students are selected on the basis of their academic background, grades, and career goals. The course is given in the two week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Applications must be received by Erindale Biology Faculty Advisors before March 31st. Students selected will be notified promptly. Application forms are available from W.G. Sprules. Enrolment limited. *Prerequisite:* BIO100Y.
- IO301H Marine Biology**
A field course in Marine Biology, at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work. Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests. Lectures on special topics are given by the scientific staff of the Biological Station. Students are selected on the basis of their academic background grades and career goals. The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available from W.G. Sprules. Enrolment limited. *Prerequisite:* BIO100Y.

- BIO302H Arctic Ecosystems I** 2L, 3F
Summer field studies at Churchill, Manitoba, of approximately two weeks duration dealing with botanical, zoological, or other aspects of arctic ecosystems or any combination of the above. *Prerequisite:* BIO100Y and approval by Undergraduate Secretary of Botany or Zoology at the St. George campus.
- BIO303H Arctic Ecosystems II** 2L, 3F
A second summer field course at Churchill, Manitoba, like BIO302H. *Prerequisite:* BIO302H and approval by Undergraduate Secretary of Botany or Zoology at the St. George campus.
- BIO320Y Plant Physiology** 2L, 3F
The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include water relations, mineral nutrition, translocation, photosynthesis, respiration, general metabolism, and growth and development. *Prerequisite:* BIO100Y, CHM118Y/150Y.
- BIO321Y Animal Physiology** 2L, 3F
A comparative approach to the study of physiological processes in animals (including man), with emphasis on the understanding of underlying principles. Topics include respiration, excretion, osmoregulation, ionic regulation, and the physiology of muscle and nerve. *Prerequisite:* BIO100Y, CHM118Y/150Y. *Recommended preparation:* PHY118Y/140Y.
- BIO322H Animal Behaviour I: Social Factors** 2L, 3F
What animals do in responding to other organisms is considered from the viewpoint of the biologist. Students learn to describe and classify behaviour patterns and to interpret their immediate causes. Causal analysis involves a consideration of both external and internal state. Instinct is contrasted with the animals' ability to modify its behaviour during its lifetime. The relevance of evolution to the study of behaviour is emphasized. *Prerequisite:* BIO251Y.
- BIO323H Animal Behaviour II: Physical Factors** 2L, 3F
The responses of animals, largely invertebrates, to light, temperature, moisture, etc., both in the laboratory and in the field, as well as the consequences of their behaviour are discussed. Arthropods, typically, are used in prescribed and student-designed experiments in the laboratory to illustrate a variety of these responses. *Prerequisite:* BIO251Y.
- BIO330Y Plant Ecology** 2L, 3F
The relationships of plant species, populations, and complexes at the sociological, environmental, and physiological level. Practical field work, laboratory studies, and experimentation are included. The course provides a background for practical training in conservation and environmental research. *Prerequisite:* BIO230H. *Recommended preparation:* BIO235Y.
- BIO332Y Freshwater Biology** 2L, 3F
A functional analysis of aquatic ecosystems. Lecture topics include: physical environments of lakes and streams; determinants of productivity of algae, zooplankton, fish and benthos; determinants of species structure of each of these groups; the processes of eutrophication and acidification. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals will be emphasized. One two-day and two one-day field trips required. Enrolment limited. *Prerequisite:* BIO230H.
- BIO333H Ecology of Forest Insects** 2L, 3F
With forest insects as examples, the characteristics of insects and their responses to the biotic and weather factors that influence their success, are discussed. The impact of insect outbreaks on forests, using case histories, is considered. In the laboratory recognition of various stages in the life history of forest insects and the characteristics of their attack on trees are stressed. *Prerequisite:* BIO100Y. *Recommended preparation:* BIO230H, 231H.

- O334H Mycology: Lower Fungi** (Alternates with BIO335H) 2L, 3P
A study of the lower fungi including the slime molds, water molds, downy mildews, white rusts, bread molds and imperfect fungi. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their isolation and culture. Field work included. *Prerequisite:* BIO100Y, 270Y (BIO250Y recommended).
- IO335H Mycology: Higher Fungi** (Alternates with BIO334H) 2L, 3P
A study of the higher fungi (yeasts, powdery mildews, black molds, cup fungi, morels, mushrooms, polypores, etc.) and lichens. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their collection, isolation and culture. Several labs. *Prerequisite:* BIO100Y, 270Y (BIO250Y recommended).
- IO340Y Introductory Genetics** 2L, 3P
Introduces the student to genetics with examples drawn from procaryotes and eucaryotes to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization, basic population genetics, and genetic aspects of evolution. Practicals will include both plant and animal material used in directed and independent experiments although the major emphasis will be on *Drosophila*. *Prerequisite:* BIO100Y (BIO241Y recommended).
- IO351Y Invertebrate Form and Function** (Offered in alternate years) 2L, 3P
Structural adaptations of invertebrate animals. Laboratories stress dissection and observation; living material is used wherever possible. Students become familiar with those structural features that form the basis of phylogenetic classification. *Prerequisite:* BIO251Y.
- IO352H Developmental Biology I**
Begins with the study of the way eggs and sperm are formed and how they interact during fertilization. Subsequently an analysis of the biochemical and morphological events of early development is detailed. Finally, topics of special interest to Developmental Biologists, such as regeneration, metamorphosis, pattern and polarity, and cancer, are studied. The frequent use of live material in the laboratory exercises enables students to comprehend the dynamic aspects of the development of organisms. *Prerequisite:* BIO241Y
- IO353H Developmental Biology II**
This course is a logical continuation of BIO352H. Developmental systems drawn mainly from plant life forms and microbes are studied in more detail. Tissue and cell culture techniques are emphasized. Topics such as the biochemistry of hormone control, photoperiodicity, circadian rhythms, and environmental stimuli are studied as they influence development. Attempts are made to assemble simple rules which govern more complex patterns of development. *Prerequisite:* BIO241Y.
- IO354H Vertebrate Form and Function** 2L, 3P
A continuation in greater depth of vertebrate topics begun in BIO251Y, with special emphasis upon morphological aspects of adaptation relative to function. Individual laboratory projects on selected vertebrates. *Prerequisite:* BIO251Y.
- IO355H Taxonomy of Vascular Plants** 5P
A survey of the flora of Ontario. The emphasis of the course is on the practical identification of plants both in the herbarium and in the field. *Prerequisite:* BIO235Y/250Y.
- IO356H Major Features of Vertebrate Evolution** 2L, 3P
The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Occasionally laboratories will be held at the Royal Ontario Museum. *Prerequisite:* BIO251Y.

- JPB359Y Sociobiology: Biological Bases of Social Behaviour** 2L, 3P
(Taught jointly with Psychology)
Concepts from ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, demonstrations, and preparation of individual projects. *Prerequisite:* BIO100Y, PSY100Y.
- BIO360H Biometrics I** 2L, 3P
An introduction to the basic principles and procedures of biological statistics. Topics will include probability, sampling theory, descriptive statistics, estimation, comparison of samples and analysis of frequencies. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361H for a complete introduction to Biometrics. *Exclusion:* Any 200-level course in Statistics.
- BIO361H Biometrics II** 2L, 3P
A sequel to BIO360H in which additional topics in biological statistics are discussed. Regression, experimental design, non-parametric statistics, and a variety of analyses of variance are included. Collection and analyses of biological data will be done in the laboratory. *Exclusion:* Any 200-level course in Statistics. *Prerequisite:* BIO360H.
- BIO370Y Microbiology** 2L, 3P
In depth discussion of microbial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); the role of microorganisms in medicine, industry, agriculture, immunology, genetics, and ecology. *Prerequisite:* BIO100Y, CHM118Y/150Y. *Recommended preparation:* BIO241Y/270Y and CHM240Y.
- BIO371H Virology** 2L, 3P
Fundamental principles and techniques of animal virology, including methods of tissue culture, virus cultivation and assay, and physiology of virus development, will be dealt with in detail. *Prerequisite:* BIO100Y, CHM118Y/150Y. (BIO270Y recommended). *Corequisite:* BIO370Y.
- BIO420H Advanced Plant Physiology** 2L, 1T
Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, or plant photobiology. Responses to environmental stresses will be emphasized. *Prerequisite:* P.I.
- BIO421Y Advanced Animal Physiology** 2L, 3P
Selected topics will be studied in depth including: comparative aspects of circulation and respiration, physiological adaptations to environmentally induced stresses, neuroendocrinology, and integration in selected regions of the mammalian brain. *Prerequisite:* BIO321Y. *Recommended preparation:* CHM240Y, 360Y.
- BIO422H Acoustic Behaviour** 3S
The role of sound in animal communication. Mechanisms of sound production and reception, the signal function of sounds, and recording and analysis techniques are the major topics studied. *Prerequisite:* Introductory knowledge of animal behaviour (e.g. BIO322H, 323H).
- BIO424H Biology of Sensory Systems** 2L, 2T
A comparative approach to sensory physiology in a wide range of animals. The analysis of transduction and neural networks will incorporate anatomical, electrophysiological, biochemical, and behavioural aspects of sensory systems. *Prerequisite:* BIO321Y.

- BIO430Y World Ecosystems** (Offered in alternate years) 2L
 An investigation of the major biotic communities of the world. Their distribution, composition, structure, productivity and dynamic aspects are considered in relation to environmental influences. Practical experience includes a two week field trip commencing the week before classes begin. Communities in six of the eight major site regions of Ontario from James Bay to Lake Erie will be studied. Students must preregister for the field trip. *Prerequisite:* BIO230H, 330Y.
- BIO431H Population Ecology** 2L, 1T
 A further development of population concepts introduced in Ecology I and II, including analyses of the components of population growth, population regulation, and the evolution of reproduction and mortality schedules. The problems of predators and energy budgets of individuals and populations will also be considered. Tutorials will involve practice with quantitative methods of analysis and discussion of papers from the literature. *Prerequisite:* BIO230H, 231H, 360H.
- BIO432H Community Ecology** 2L, 1T
 An animal and plant ecology course dealing with patterns and processes at the community level. Topics will include community structure and diversity, community energetics, and biogeographical theories. *Prerequisite:* BIO230H, 231H, 360H.
- BIO433H Arctic Ecology** 2L, 1T
 The Arctic environment (climate, landscape, frost phenomena) is investigated. The characteristics of soils and plant and animal life are described and studied. Problems associated with increasing human activity in the Arctic are discussed. *Exclusion:* GGR241Y(G). *Prerequisite:* BIO230H.
- BIO435H Biogeography** 3S
 The historical, descriptive, and dynamic aspects of large-scale distributional patterns of plants and animals are examined. Course work consists of lectures, class discussions and written assignments based on a variety of published material. *Prerequisite:* BIO230H and 231H. (BIO340Y recommended).
- BIO440Y Advanced Genetics** 2L, 2P
 A course designed to familiarize the student with current advances in genetics. Major topics will include: the organization of the nucleus; nuclear cycle; structure and function of chromosomes and chromatin; cytogenetic aberrations; recombination and fine structure analysis; gene products and the regulation of gene expression; extra chromosomal inheritance. Laboratory sessions will include selected experiments and critical discussions of current literature.
- BIO441Y Electron Microscopy** 1L, 3P
 An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues. *Prerequisite:* Written permission is required to enroll. See instructor during registration week.
- BIO442H Evolution** 2L, 3P
 The course concentrates on current concepts in evolutionary theory. Some of the topics that will be covered include: mechanisms of speciation, mimicry, character displacement, genetic drift and the founder effect. Laboratories include individual presentations and modeling of evolutionary processes. *Prerequisite:* BIO340Y.
- BIO452H Advanced Topics in Cell and Developmental Biology** 3L
 This course focuses on the current state of affairs in certain areas of cell and developmental biology. Topics such as intercellular communication, cell-to-cell adhesion, cell fusion, morphogenesis and differentiation will be covered. Lectures and seminars will involve critical discussions of recently published research articles. *Prerequisite:* BIO241Y, BIO352Y and P.I.

- BIO455H Developmental Molecular Biology** 1L, 2T
An examination of recent information on the molecular control of development in eukaryotes. Current ideas on the regulation of nucleic acid biosynthesis (nucleo-proteins, hormones, "specificity factors") will be reviewed for plants, animals, and eukaryotic microbes. An analysis of how current data fit into the theoretical models of gene regulation and development will be made. The course will include student discussions of published research articles. This course is the same as BOT455H(G). Every other week the class meets on the St. George Campus. *Prerequisite:* BIO241Y, 340Y, 352Y, and P.I.
- BIO456H Biosystematics** 2T, 3P
A consideration of the principles of taxonomy with particular emphasis on vascular plants. Topics to be discussed include the species concept, polyploidy, numerical taxonomy and geographical and ecological variation. Each student will be required to undertake an investigation of the variation found in a selected population of plants. *Prerequisite:* BIO235Y/250Y, (BIO340Y recommended). *Corequisite:* BIO340Y and P.I.
- BIO460H Microbial Ecology** 2L, 3P
The role of microorganisms in nature and the effects of human society. The course will cover four areas of the microbial ecosystem; the microbial community and its developments, interspecific relationships, the effects of microorganisms on their surroundings, and microbial aspects of pollution. *Prerequisite:* BIO370Y, 230H. *Corequisite:* CHM240Y (CHM360Y recommended).
- BIO470Y Molecular Biology** 2L, 3T
To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with microbial and viral genetics; the structure, function, and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; modern physio-chemical methods in studies of biomolecules, etc. *Prerequisite:* BIO241Y, 370Y, P.I. *Corequisite:* CHM360Y.
- BIO480H Biology Research Project I**
A research project carried out under the supervision of a staff member. Open to third and fourth year students. Written consent of staff member supervising the project must be obtained for registration. Seminar presentation may be required.
- BIO481H Biology Research Project II**
Open only to fourth year students. Student may combine BIO480H and BIO481H into a single project. Written consent of the supervising staff member must be obtained for registration. Seminar presentation may be required.

CHEMISTRY

Faculty Advisor: Professor I.W.J. Still

Modern chemistry provides an understanding of the structures and properties of atoms and molecules and uses this knowledge to interpret and predict changes associated with chemical reactions. In addition to its vital role in modern science-based industry, chemistry has an increasingly important bearing on other sciences such as biology, the medical sciences, psychology, geology, metallurgy and astrophysics. As an intellectual pursuit it is also becoming increasingly recognized as a sound basis for other walks of life, combining as it does the need for both disciplined and imaginative thinking. This is reflected in the courses offered in the recommended programmes in Chemistry.

Although science and technology have been responsible for the discovery and development of innumerable things beneficial to mankind, along with these creations unfortunately came a wide range of new problems. Some of these can be associated with our finite and exhaustible natural resources (energy conservation - coal, oil, gas, etc.), energy conservation hazards (nuclear waste problems), environmental pollution (air, water, food, noise, etc.), food shortages (agricultural, livestock, etc.). As many of the significant breakthroughs and advances in these fields are likely to originate from interdisciplinary research and development in the physical, biological and health sciences, the important role of the problem-solving chemist in our present-day society becomes immediately apparent.

Specialist Programmes: The various programmes in Chemistry offered at Erindale College provide a very suitable preparation for those who intend to enter the work force in industry, to teach chemistry in high school (Type A certificate) or to continue into a graduate programme.

Four Specialist Programmes in Chemistry are presently available at Erindale: CHEMISTRY, CHEMISTRY & BIOCHEMISTRY, CHEMISTRY & GEOLOGY, AND CHEMISTRY (PHYSICAL CHEMISTRY) and the detailed requirements associated with these are listed in Section 7 of this calendar. The first three years of the BIOCHEMISTRY Specialist Programme may also be taken at Erindale. In addition, a CHEMISTRY MAJOR programme is available for students enrolled either for a three-year or four-year degree who wish a strong background in chemistry as part of a more general science programme. The content of each programme reflects the kind of training that is expected of students entering graduate study or other professional work in the area defined by the programme title. It is very important to plan your programme well in advance and to consult regularly (at least once a year) with the Faculty Advisor. It is particularly desirable to take specific courses in the year of study for which they are designed (e.g., CHM200 courses in Year II, etc.), as serious timetable clashes are likely to arise if this advice is not followed. In particular, students planning a programme in which chemistry plays a major role are strongly advised to take CHM215H, CHM230H, CHM226Y, and CHM240Y/241Y in their second year. While some deviations from the Specialist Programmes listed are possible, students should consult the Faculty Advisor *before* departing from the recommended programmes.

A Specialist Programme is not formally required for entry to graduate school in Chemistry but these programmes constitute an excellent preparation for this purpose. They also provide a means of attaining Type A teacher certification for those intending to teach chemistry at high school level. In addition, many of the courses listed provide excellent preparation for students whose main interests lie in the biological or earth sciences.

Please see Section 7 for details of Programme Requirement.

- CHM118Y General Chemistry** 3L(F), 2L(S), 3P
Fall Term: Chemical stoichiometry, behaviour of gases, equilibria, thermochemistry, introduction to atomic and molecular structure, periodic properties of the elements.
Spring Term: Kinetics and mechanisms, applications of the principles of equilibria and kinetics, descriptive inorganic and organic chemistry, nuclear chemistry.
Note: CHM118Y is a sufficient prerequisite for CHM240Y only. For other higher level chemistry courses, a standing of at least 70% must be achieved in CHM118Y. **Exclusion:** CHM150Y. **Prerequisite:** Grade 13 CHM and MAT (R and F/C) **Corequisite:** MAT132Y/138Y.
- CHM150Y Basic Concepts of Chemistry** 3L(F), 2L(S), 3P
Note: All first-year chemistry students must enroll in CHM118Y. Those who qualify may have their registration changed to CHM150Y in the spring term.
Fall Term: See CHM118Y.
Spring Term: Thermodynamics and electrochemistry, introductory quantum theory and wave mechanics, molecular structure, kinetics and mechanisms, coordination chemistry.
Exclusion: CHM118Y. **Prerequisite:** Grade 13 CHM and MAT (R and F/C), a minimum of 60% in the fall term of CHM118Y. **Corequisite:** MAT132Y/138Y (PHY140Y required for specialist programmes in chemistry).
- CHM215H Fundamentals of Analytical Chemistry** 2L, 4P
A rigorous introduction to the theory and practice of classical analytical chemistry. Gravimetric methods: direct and indirect precipitations. Volumetric methods: acid-base, redox, precipitation, and non-aqueous titrations. Introduction to statistical concepts in treatment of analytical data. **Prerequisite:** CHM150Y or 118Y (grade B).
- CHM226Y Physical Concepts in Chemistry** 3L, 4P(S)
This course will provide the physical background to modern chemistry. The laboratory course will be optional but those students intending to take CHM321Y are strongly recommended to take it. Topics covered will include: thermodynamics, colligative properties, phase transitions, chemical kinetics, diffusion, conceptual foundations of quantum theory and spectroscopy. Examples will be drawn that are applicable to a wide range of disciplines including chemistry, biochemistry, and geology. **Exclusion:** CHM220Y, 221Y, 222Y. **Prerequisite:** CHM150Y or CHM118Y (Grade B); MAT132Y/138Y. **Corequisite:** MAT235Y is recommended and is one of the prerequisites for CHM321Y.

- CHM230H Introductory Inorganic Chemistry** 2L, 4P
Brief review of atomic structure; chemical bonding; ionic solids; the chemistry of anions; coordination chemistry; solvents, solutions, acids and bases; introduction to the periodicity of the elements. The laboratory course introduces the student to a range of synthetic, analytical and instrumental techniques. *Prerequisite:* CHM150Y or 118Y (grade B). *Corequisite:* CHM240Y/241Y, CHM221Y/222Y/226Y.
- CHM240Y Introductory Organic Chemistry** 2L, 4P(F)
The fundamentals of Organic Chemistry appropriate for biologists, pharmacists and medical school candidates who need a broad general background. The material includes synthesis and reactivity of the major classes of organic compounds from the standpoint of modern theories of structure and reaction mechanisms. The laboratory includes basic techniques and selected examples of synthesis of organic compounds chosen to illustrate lecture material. *Exclusion:* CHM241Y. *Prerequisite:* CHM150Y or CHM118Y.
- CHM241Y Organic Chemistry I** 3L, 4P(F)
Part I of a two-year sequence in Organic Chemistry for students intending to specialize in the subject. The course will cover the same material as CHM240Y but a greater depth of understanding will be expected. *In addition* there will be a thorough examination of stereochemistry, more advanced synthetic methods, and applications of spectroscopy, as well as an introduction to electrocyclic and photochemical reactions. The laboratory course will be very similar to that of CHM240Y.
Students who might be taking organic chemistry in third year should register in CHM241Y rather than CHM240Y. *Exclusion:* CHM240Y. *Prerequisite:* CHM150Y or CHM118Y (grade B). *Corequisite:* CHM221Y/222Y/226Y, 230H.
- CHM315H Instrumental Methods in Analytical Chemistry** 2L, 4P
The chemical principles and instrument design for the quantitative analysis of organic and inorganic materials. Techniques to be discussed will be selected from:- U.V.-visible, atomic absorption, mass spectroscopy; potentiometry and voltammetry, including polarography; gas-liquid chromatography; nuclear methods. Laboratory exercises will illustrate some of these techniques. *Exclusion:* CHM314Y(G). *Prerequisite:* CHM215H, CHM221Y/226Y, CHM230H. *Corequisite:* CHM240Y recommended.
- CHM316H Industrial Applications of Instrumental Analysis** 2L, 4P
This course makes use of the knowledge of analytical principles and instrumentation gained in CHM315H in a survey of the ways in which they are applied in industry, pharmacy, analytical biochemistry, food and forensic science. Topics will include sample manipulation, multisample, rapid, and trace analysis, automation, optimisation techniques, laboratory design. *Exclusion:* CHM314Y(G). *Prerequisite:* CHM315H.
- CHM321Y Physical Chemistry** 2L, 4P(F)
Quantum statistical mechanics. The solid and liquid states. Physical chemistry of surfaces. Photochemistry. *Prerequisite:* CHM221Y/226Y, MAT235Y/239Y/APM251Y.
- CHM330Y Inorganic Chemistry** 2L, 4P
Introduction to transition elements; theories of bonding in transition metal complexes; complexes of π -acceptor ligands; organometallic compounds; organometallic compounds in homogeneous catalysis; metals in biological systems; thermodynamics of complex formation; mechanisms of reactions of metal complexes; descriptive chemistry of selected transition metals; descriptive chemistry of selected main group metals. The laboratory course covers a wide range of synthetic, analytical and instrumental techniques. *Prerequisite:* CHM230H.
- CHM340Y Organic Chemistry** 2L, 4P
The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds. *Prerequisite:* CHM241Y(CHM240Y and P.I.).

- HM347H Organic Chemistry of Biologically Important Compounds** 2L
The chemistry of selected classes of naturally occurring molecules with emphasis on structure, stereochemistry, properties and synthesis. Amino acids, peptides, proteins, carbohydrates, nucleosides, nucleotides, nucleic acids, terpenes and steroids. *Corequisite*: CHM340Y.
- HM360Y Biological Chemistry** 3L
A lecture course in general biochemistry treating physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and control mechanisms, biosynthetic pathways of small molecules, nucleic acids and protein synthesis, and bioenergetics. In the spring term each student will prepare a term paper, based on literature research in a topic of current biochemical interest, and will discuss it in a seminar. This course is an acceptable equivalent to BCH320Y(G)/321Y(G) as prerequisite for fourth-year courses in Biochemistry. *Prerequisite*: CHM240Y/241Y (CHM230H recommended). *Corequisite*: CHM221Y/222Y/226Y/P.I. CHM340Y recommended.
- HM371H A Laboratory Course in Biochemistry** 3P
To complement CHM360Y and prepare for BCH471H(G). (Equivalent to BCH371H(G)). *Corequisite*: CHM360Y and P.I.
- HM410Y, 411H, 412H Topics in Chemistry** 2L
These courses will comprise groups of ca. 25 lectures, each of which will be given in one term. Two groups can be combined to comprise CHM410Y, or one group can be taken as CHM411H or CHM412H. The following topics have been offered in recent years and the selection to be offered 1981-82 will depend on enrolments. Generally a minimum of 4 students is required before a topic is given. Interested students should consult the Faculty Advisor.
- Theory of Optical Spectroscopy* (equivalent to CHM424H (St. G.))
Theory of radiation, time dependent perturbation theory, transition probabilities, oscillator strength, simulated emission, atomic spectra, UV, visible, IR and Raman spectroscopy. *Corequisite*: CHM321Y.
- Non-Aqueous Solution Chemistry*
The range of non-aqueous systems, their properties and use as preparative media; classification of non-aqueous solvents; general theories of acid and base; experimental methods in non-aqueous systems and a detailed examination of specific examples, including H_2SO_4 ; super acid media; liquid NH_3 ; hydrogen halides; dinitrogen tetroxide; liquid SO_2 and dimethyl sulfoxide. *Prerequisite*: CHM330Y.
- Structural Inorganic Chemistry*
Methods of structure determination including X-ray and electron diffraction, infra-red, Raman and n.m.r. spectroscopy. A survey of bonding theories and a comparison of the successes and failures of Valence Shell Electron Repulsion Theory applied to the compounds of non-transition and transition elements. *Prerequisite*: CHM330Y.
- Organometallic Chemistry* (equivalent to CHM432H (St.G.))
Synthesis, structure, stability, and reactivity of metal-carbon bonds. Alkyl and aryl derivatives of the main group metals; transition metal-carbon σ -bonded organometallics; transition metal π -bonded organometallics; effects of other ligands on the reactivity of metal-carbon bonds; role of organometallic complexes in catalysis, e.g. olefin hydrogenation, dimerisation, polymerization, isomerization. *Prerequisite*: CHM330Y. *Recommended preparation*: CHM340Y/341Y.
- Bioinorganic Chemistry*
Thermodynamic, spectral, and magnetic properties are considered to determine the structural and functional roles of metal ions in proteins, enzymes, and metal activated systems. Metalloenzyme catalytic mechanisms are compared with those of simple inorganic complexes. *Prerequisite*: CHM330Y, 360Y/BCH321Y.
Additional topics could include: advanced thermodynamics, synthetic organic chemistry, organic photo-chemistry, computer simulation of chemical systems, advanced biochemistry. *Prerequisite*: P.I.

CHM415Y Dissertation Based On Literature Research

The dissertation will be based on literature research of a given area and would be expected to occupy one-fifth of a student's programme. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM419Y. *Prerequisite:* P.I. and CHM220Y/221Y/226Y and three of CHM321Y, 330Y, 340Y, and 360Y.

CHM419Y Introduction to Research in Chemistry

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time involved would be of the order of 250 hours, and students, in addition to carrying out research on their own projects, will be encouraged to participate fully in the activities of their chosen research groups. A final report incorporating the aims and results of this research will be required. *Corequisite:* At least one 400-level chemistry course and P.I.

CLASSICS

See also Greek and Roman History (GRH)

Greek and Latin Literature (GLL) Greek (GRK), and Latin (LAT)

Faculty Advisor: Professor C.I. Rubincam

Classics is the study of the civilizations of Greece and Rome. The achievements of these civilizations are of interest in their own right, but they are also interesting in that they have been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. Courses in Classics thus present background material which is indispensable for the understanding of many other studies in the Humanities.

Courses are offered at Erindale in five areas. Three of these require no knowledge of the original languages: (1) Classics (CLA). (2) Greek and Roman History (GRH). (Upon application to the Department of History students may receive credit for these courses toward the Specialist Programme in History.) (3) Greek and Roman Literature, read in translation (GLL). (This heading also includes the study of myth and religion.) The other two areas are Latin (LAT) and Greek (GRK) language and literature studied in the original. Beginners' courses are offered in both languages.

For courses in Classics see also Greek and Roman History (GRH), Greek and Latin Literature (GLL), Greek (GRK), and Latin (LAT); also FAH101Y, 256H, HIS485Y, 486Y.

Please see Section 7 for details of Programme Requirement.

CLA201H Latin and Greek in Scientific Terminology

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The study of technical and scientific terms derived from Latin and Greek: word elements formation, analysis. The course is designed to assist students in medical, biological, and related studies in making sense of the technical terminology of these fields by explaining its origins in ancient Greek and Latin.

COMMERCE

Faculty Advisor: Mrs. C.K. Clarke

Objective of Commerce Programmes

The objective of the programme in Commerce and Finance is to help students develop the analytical abilities needed to solve problems and make decisions in organizations and to participate in and contribute constructively to our society generally.

he programme at the University of Toronto has long had a strong and unique economics content - one that equips graduates particularly well for the future in view of the increasing interaction between the private and public sectors of our economy and the special social, economic, and business problems that face us as a nation. It incorporates this philosophy by requiring the same minimum number of courses in each of Economics and Commerce.

he programme offers the student a foundation on which to build managerial and professional skills. Areas of study embrace the economic and legal environments of the enterprise, the determinants of organizational strategy, and the problems of achieving effectiveness within an organization.

he earlier parts of the programme emphasize studies of the accounting system that provides a basis for the flow of information within a business and to investors, of the economic factors that shape competitive and co-operative action in society and, generally, of the structure of our economic and social institutions. More senior courses then build on these subject areas by dealing in depth with administrative and organizational behaviour, accounting policies and research, and marketing, production and financial strategies.

he programme also gives attention to the public sector and recognizes the increasing importance of applying administrative skills in the management of governmental institutions.

A student may design a programme for a B.Com. degree in such a way as to place special emphasis in Third and Fourth Years on one or more of the general areas of commerce, economics, accounting and finance, depending upon his plans for the future. Students who choose to emphasize commerce tend to accept positions in business or government service on graduation or to undertake further studies at the graduate level in business administration or law. Students who choose to emphasize economics may make a number of sub-choices within the field - for example, in economic theory, in mathematical economics, in economic history, and in economic development. A significant number of students who have made this choice have then undertaken graduate studies in economics and some have proceeded to academic careers. Students who choose to emphasize accounting and finance may make careers in the accounting profession and in the financial world; a significant portion of the class has been so inclined in recent years.

There are two degree programmes in Commerce offered at Erindale: The Bachelor of Commerce (B.Com.) and the Major in Commerce (B.A.). In addition some Commerce Courses are available to students seeking degrees outside of the Commerce discipline. All commerce courses above the 100 level require ballots to be filed in the Commerce Office by April 1st. The ballots will be used as a basis for checking whether the students are eligible to enroll in the course and to allocate places in courses which become oversubscribed.

Please see Section 7 for details of Programme Requirement.

COM100Y	Financial Accounting Basic theory and concepts which underlie the preparation of financial statements; double entry theory and practice, the accounting cycle from the recording of transactions to the year end entries and preparation of financial statements; problems of measuring income. This course is for students in the Faculty of Arts and Science who intend to pursue the Commerce and Finance Programme. Other students who wish to take only a few Commerce courses should take COM203H. <i>Exclusion:</i> COM202Y/203H.	2L, 1P(A)
COM203H	Financial Accounting Introductory course in financial accounting and reporting. (Not available to students in the B.Com. programme) <i>Exclusion:</i> COM100Y/202Y.	2L
COM204H	Managerial Accounting Introductory course in managerial accounting. (Not available to students in the B.Com. programme.) <i>Exclusion:</i> COM202Y/220Y/223H/224H. <i>Prerequisite:</i> COM100Y/COM203H.	2L

- COM220Y Management Accounting (Replaces COM223H and 224H)** 2L
The development of information for management decision making and control. Topics include costing, capital budgeting, and selected analytical tools such as regression analysis and inventory models. Case discussions and computer applications will be used where appropriate. *Prerequisite:* COM100Y, ECO100Y, MAT132Y/138Y.
- COM300Y The Legal Environment of Business** 2L
Development of an approach to reaching decisions objectively, examination of how law, as an institution, accommodates business convenience and social policy. Analysis of legal devices commonly encountered in the operation of a business. *Prerequisite:* ECO100Y. *Corequisite:* COM220Y/223H.
- COM320Y Financial Accounting Theory and Policy** 2L
Theory of and critical examination of corporate financial reporting and generally accepted accounting principles. *Prerequisite:* COM220Y/223H.
- POL322Y Introduction to Public Administration (Formerly COM323Y)** 2L, 1T
The literature of public administration and some of the main issues of the present and recent past in Canada and to a limited extent in Britain and other countries. In other countries primary emphasis will be on policies or features that have influenced Canadian practice. In the B.Com programme this course qualifies as either a Commerce or Political Science course. *Prerequisite:* COM100Y/203H/POL100Y.
- COM324H Investments** 2L
Security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. *Prerequisite:* COM100Y, ECO202Y, 220Y/STA242Y. *Corequisite:* COM337Y.
- COM325Y Managerial Economics (Formerly COM425Y)** 2L
The micro-economic tools of analysis relevant to management problems in both the private and public sectors. Topics include the nature of the firm, empirical demand and cost analysis, the economics of risk and uncertainty, the economics of information, public enterprise economics, the economics of regulation and regulatory practices in Canadian industry, transfer pricing problems, technological change and market structure. In the B.Com. programme this course qualifies as either a Commerce or an Economics course. *Prerequisite:* ECO200Y, MAT132Y/138Y, ECO220Y/STA242Y.
- COM331Y Finance** 2L
The financial decision-making process including the financing, investment, and dividend decisions of the firm. Institutional aspects of finance, with emphasis on the characteristics of various debt and equity instruments available in Canadian capital markets. Not available to students in the Commerce and Finance (B.Com.) programme. *Prerequisite:* COM100Y/202Y/203H, 204H/220Y/223H, ECO100Y, ECO220Y/STA202H and STA212H/STA242Y.
- COM337Y Business Finance** 2L
Valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, dividend policy, the financial environment within which Canadian companies operate and the characteristics of various debt equity instruments available in the Canadian capital market. *Prerequisite:* COM220Y/223H, MAT132Y/138Y, ECO220Y/STA242Y. *Corequisite:* ECO200Y/202Y.
- COM349H Fundamentals of Marketing** 2L
Study of the interacting institutions and business activities designed to plan, price, promote and distribute products and services to present and potential consumers. (Not available to students in the B.Com. programme.) *Prerequisite:* COM202Y/204H, ECO100Y.
- COM350Y Marketing** 2L
Market definition, consumer behaviour, and marketing functions - product line development, pricing, distribution, promotion, salesforce management, advertising, research, and planning. *Prerequisite:* COM220Y/223H, ECO200Y/202Y.

- COM410H Marketing Management** 2L
Emphasis on marketing management in a dynamic environment. Deals with decision-making concepts and tools useful in identifying, structuring and solving marketing problems, planning and control. *Prerequisite:* COM350Y and permission of instructor.
- COM420Y Accounting Literature and Research** 2L
A seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States and Britain, of articles in current issues of accounting journals, and of classic articles in books of readings. Review of contemporary and controversial issues in accounting theory. Enrolment is limited. *Prerequisite:* COM320Y and permission of instructor.
- COM422Y Quantitative Systems Analysis** 2L
A course dealing with quantitative analysis for management decision-making in the areas of marketing, finance, operations, personnel and the public sector. Models found applicable for the analysis of decision problems will be discussed such as: linear and non-linear programming, dynamic programming, network analysis, games and statistical decisions, Markov processes, and queueing models and simulation. *Prerequisite:* COM220Y/223H, MAT132Y/138Y, ECO220Y/STA242Y.
- COM423Y Canadian Business Taxation** 2L
Introduction to the technical provisions and broad policy issues involved in taxation of business enterprises in Canada. *Prerequisite:* COM220Y/223H, ECO200Y/202Y. *Corequisite:* COM337Y. Special Students who hold a University degree are exempt from the ECO200Y/202Y prerequisite.
- COM427H Introduction to International Business** 2L
The interaction of the international environment with business operations; the adaptation of business strategy for the economic, socio-political and cultural environment prevalent in foreign areas of business opportunities. Canada as a host to international business; problems faced abroad by Canadian and other businesses. Cases deal with foreign risks and management alternatives to those risks. *Prerequisite:* COM220Y/223H, ECO200Y, 202Y.
- COM428H Management Control** 2L
The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Commerce and Economics in the solution of problems in systems design and operation. Enrolment is limited. *Prerequisite:* COM220Y/223H and permission of instructor.
- COM430H Advanced Auditing Topics** 2L
The analytical and conceptual foundations of audit practice. Objective integration of audit evidence to support a professional opinion on financial statements; auditing EDP systems, management audits. *Prerequisite:* COM320Y, CSC139H, ECO200Y/210Y, ECO220Y/STA242Y.
- COM441H Theory of Administrative Behaviour I** 2L
Theoretical ideas and empirical data concerning individual and group behaviour in organizations. Relevance of these for problems confronting management: motivation, influence, communication, supervision and decision-making. *Exclusion:* WDW103Y. *Prerequisite:* COM220Y/223H, ECO200Y/202Y. *Corequisite:* COM337Y.
- COM442H Theory of Administrative Behaviour II** 2L
Presents the evolution of managerial and organization theory and practice from the classical approach of bureaucratic theory to the concepts of the organization as an open system. The managerial assumptions and implications of these theories are explored and applied to organizational problems. *Exclusion:* WDW103Y. *Prerequisite:* COM220Y/223H, ECO200Y/202Y. *Corequisite:* COM337Y.

COM450H Management Policy and Strategy

2L

Choice of corporate purposes and definition of needs, the mobilization of resources and moulding of organizational character for the attainment of goals. Analysis of the conditions for the survival and growth of the corporation as it relates to (1) external environmental threats and opportunities, and (2) the assessment of internal strengths and weaknesses.

Prerequisite: COM337Y. *Corequisite:* COM350Y.

COMPUTER SCIENCE

Faculty Advisor: Professor C. Rackoff

Computer Science is concerned with the use of computers to process information. A modern computer is expected to process many different kinds of information: business accounts and records, scientific calculations for engineering and the physical sciences, natural language text for linguists. Computer Science includes the identification of classes of problems that can be solved using computers, the study of ways of representing the relevant information in computer usable form, and the investigation of how best to describe solutions in terms of the operations that computers can perform.

A fundamental concept in Computer Science is the algorithm - a list of instructions which specifies the steps required to solve a particular problem. Two major concerns in Computer Science are the analysis of problems, frequently using the tools of mathematics and statistics, and the formulation of algorithms to solve particular classes of problems. Other areas of interest include the transformation of abstract algorithms into computer programmes, and the testing and validation of algorithms and programmes. Closely related to these areas are efforts to develop tools for designing better computers and for using them more effectively.

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers in other fields. The specialist programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare the student for graduate study. The specialist programme in Computer Science for Data Management is intended for students who plan to pursue a career in information systems development, an area of increasing importance to business, industry, and government. From this programme a student may also continue with graduate study in Computer Science. If certain optional courses in the Faculty of Management Studies, or their equivalents in Commerce, are taken in the third and fourth years, a student in this programme may qualify for advanced standing toward the MBA degree. The major or minor programme in Computer Science may be taken by students in other areas such as the humanities, social sciences, life sciences, or physical sciences.

NOTE: Because of limited resources, enrolment in the Specialist and Major Programmes may be restricted.

Data Management students may also be interested in taking COM422Y in their third or fourth year.

Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSC139H and CSC118H. A number of applications courses are then available in the second and later years. CSC336H is recommended for science students. CSC208H, 218H(G) and 300H(G) are other possibilities.

Students who are anticipating a career in secondary school teaching should select several courses from the following: CSC139H/149H, 118H/158H, 228H, 248H, 258H, 300H(G), 336H, 356H.

CSC139H is equivalent to CSC201H(G) and to CSC148H(G). CSC118H is equivalent to CSC202H(G). CSC356H is equivalent to CSC334H(G) and to CSC378H(G).

Please see Section 7 for details of Programme Requirement.

- CSC118H Programming Applications** 2L, 1T
A continuation of CSC139H, but at a less intensive level than CSC158H. Survey of the uses of computers. Applications of computers in areas such as data processing, simulation, numerical calculations, and nonnumeric information processing. *Exclusion:* CSC158H, 202H(G). *Prerequisite:* CSC108H(G)(as given before 1979-80)/139H/148H(G)/149H/201H(G).
- CSC139H Introduction to Computer Programming** 2L, 2T
Introduction to algorithms and problem solving with computers. Programming in a high-level language, such as PL/I. Structured programming. Introduction to computer organization and assembly language. Some nonnumeric applications. *Exclusion:* CSC108H(G)(as given before 1979-80), 148H(G), 149H, 201H(G). *Prerequisite:* Grade 12 Mathematics.
- CSC149H Programming Techniques and Style** 2L, 2T
An advanced treatment of CSC139H topics, intended for students with prior programming experience, e.g., one year at the high school level. Principles of good programming style; design of correct and understandable programmes. (The normal follow-up to CSC149H is CSC158H. However, students whose performance in CSC149H is excellent may take any second year CSC course concurrently with CSC158H, with permission.) *Exclusion:* CSC108H(G)(as given before 1979-80), 139H, 148H(G), 201H(G). *Prerequisite:* Grade 13 Mathematics R&F and C, previous programming experience. *Corequisite:* MAT132Y/138Y.
- CSC158H Computer Applications** 2L, 1T
A continuation of CSC139H or CSC149H, but at a more intensive level than CSC118H. Elementary numerical methods. Some techniques of data processing. Construction and validation of computer simulation models. Representation and manipulation of graphs, games, computer graphics, and text editing. *Exclusion:* CSC118H, 202H(G). *Prerequisite:* Grade 13 Mathematics R&F and C, CSC139H/148H(G)/149H. *Corequisite:* MAT132Y/138Y.
- CSC208H Assembly-Language Programming and Applications** 2L, 1T
Introduction to assembly-language programming. Programme segmentation and subroutine linking. Macro definition and use. Applications. *Prerequisite:* CSC118H/158H/202H(G).
- CSC228H Programming Techniques For Data Processing** 2L, 1T
Essential techniques used in designing and implementing sequential file processing systems. COBOL is introduced as an example of a programming language used in such systems. Topics include: COBOL basics; hardware and software of data processing systems; sequential file processing; internal and external sorting methods; principles of structured systems analysis and design; design and implementation of decision tables; operational requirements of data processing systems - data validation, encoding, compression, security, and auditing. *Prerequisite:* CSC158H.
- CSC248H Programming Languages** 2L, 1T
Introduction to programming language concepts and features. Introduction to formal description of syntax. Language facilities for list processing and string manipulation. Control structures. Batch and interactive computing. Concepts of applicative programming. Introduction to proving programme correctness. *Prerequisite:* CSC158H.
- CSC258H Computer Organization** 2L, 1T
Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, micro-programming. Some case studies of actual machines to illustrate various computer architectures. *Prerequisite:* CSC158H.

- CSC336H Numerical Methods** 2L, 1T
The study of computational methods for solving problems in linear algebra, nonlinear equations, approximations, and ordinary differential equations. The aim is to teach the students how to use mathematical subroutine packages currently available in computer libraries. *Exclusion:* CSC351H(G). *Prerequisite:* CSC118H/158H/202H(G), MAT234Y/235Y/239Y. *Corequisite:* MAT228H.
- CSC348H Introduction to Algebra and Algebraic Computing** 2L, 1T
A universal algebra approach to the structures of modern algebra, with a view to applications to computer science. The emphasis is on rings and groups; in particular, the ring of integers (i.e., number theory) and the ring of polynomials over a field. *Exclusion:* MAT229H/330H/240H(G)/300Y(G). *Prerequisite:* MAT228H.
- CSC356H Topics in Data Processing and Information Structures** 2L, 1T
Searching and sorting algorithms, retrieval and update algorithms. The representation and application of data structures in these and other algorithms. Management information systems. *Exclusion:* CSC334H(G), 378H(G). *Prerequisite:* CSC228H/(248H and 258H).
- CSC364H Effective and Efficient Computing** 2L, 1T
Introduction to the Theory of Computation: computable functions, Turing machines, recursive and primitive recursive functions, unsolvable problems, and Church's thesis. Introduction to Logic: propositional calculus, predicate calculus, and programme correctness. Introduction to Complexity Theory: models of computation, classes P and NP, techniques for efficient algorithms, NP-complete problems, and heuristic algorithms. *Prerequisite:* CSC348H/MAT228H/239Y/348H.
- CSC368H Language Processors** 2L, 1T
Compiler organization, compiler writing tools, use of regular expressions, finite automata and context-free grammars, scanning and parsing, runtime organization, semantic analysis, implementing the runtime model, storage allocation, code generation. *Exclusion:* CSC344H(G)(as given before 1979-80). *Prerequisite:* CSC248H, 258H, 356H.
- CSC492H Computer Science Implementation Project**
This half-course involves a significant implementation project in any area of Computer Science. The project may be undertaken individually or in small groups. The project is offered by arrangement with a Computer Science faculty member. *Exclusion:* CSC494H(G). *Prerequisite:* At least three 300-level CSC half-courses and permission of the Discipline Representative.
- CSC493H Computer Science Expository Work**
This half-course involves a significant literature search and expository work in any area of Computer Science. This work must be undertaken individually. It is offered by arrangement with a Computer Science faculty member. *Exclusion:* CSC494H(G). *Prerequisite:* At least three 300-level CSC half-courses and permission of the Discipline Representative. *Recommended preparation:* INE203H.

DRAMA

Faculty Advisor: Professor J. Astington

The study of drama invites the student to consider a form of art as old as man. Facilities at Erindale provide opportunities for a full and varied exploration of the nature of drama: courses in dramatic literature, theatrical history, and theatre practice enable the student to experience a number of different approaches to understanding. An equipped Studio Theatre is available for rehearsal and performance.

Please see Section 7 for details of Programme Requirement.

- DRM110Y History of Western Theatre from Antiquity to the Present Day** 2L, 1S
(Offered in alternate years)
A survey of the development of the arts of the theatre, covering the following major periods and styles: Ancient Greece, Rome, Mediaeval, Renaissance, Neoclassical, Baroque, 18C., 19C., and Modern Theatre (Europe); American Theatre. Subjects of study will include theatre architecture, stage design, techniques of acting, staging and production, costuming, lighting, and the social context of theatre (audiences, patrons).
- DRM200Y Acting I** 4P
Basic areas of acting technique in speech and movement; problems of portrayal of character; phenomena of theatrical communication (actor to actor, actor to audience, and "feedback") and techniques for their control. Students will be expected to participate in public productions and to prepare for classes as for rehearsal (line learning, research).
- DRM300Y Acting II** (Offered in alternate years) 4P
Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRM200Y will be continued in a more advanced and intensive way. *Prerequisite:* DRM200Y or equivalent.

ECONOMICS

Faculty Advisor: Professor M.J. Hare

Economics is a social science; that is, it is an exploration of the behaviour of people in society. It has a strong influence on the structure, well-being and development of a society. More specifically, Economics studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. The decisions of what to produce, of production methods, and how to distribute the goods and services provided must be made in each country irrespective of the political organization of the government in that country. Allocative decisions are made according to traditional patterns and customs; by government decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level Economics considers such problems as the excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g. oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities, custom unions and energy analysis, topics which are ubiquitous in today's newspapers.

The course sequence in Economics at Erindale is intentionally designed to accommodate the interests of students who wish to specialize in this discipline, and concomitantly, those who wish a broader assessment.

Students who wish to concentrate in Economics may proceed into the Four Year "specialist programme" in Economics; into the Programme in Commerce and Finance, an internationally acknowledged joint major in Commerce and Economics which is offered at Erindale College, or into several combined "specialist programmes" such as Economics and Political Science. Combined "specialist programmes" are expected to be developed with Economics and History, Geography, Mathematics and Computer Science as well as with other disciplines. In addition, a Major and a Minor Programme are offered in Economics. Supplementary information will be available from the Departmental Office for Economics at Erindale.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government. Scientists, doctors, musicians and even potential astronauts who have been exposed to a series of courses in Economics develop a more sophisticated comprehension of the principal economic issues which confront society. Concomitantly those who have been exposed to a hard-core diet of rigorous economic analysis will find that it enhances their decision-making processes.

First year preparation includes ECO100Y, and either MAT132Y or MAT138Y.

Students who plan to take a sequence of courses in Economics should read carefully the Enrolment Criteria for ECO 200- and 300- level courses (available from the Department Office at Erindale) and notice that ECO220Y/STA242Y is required for many ECO300- level courses.

Please see Section 7 for details of Programme Requirement.

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|---------|--|--------|
| ECO100Y | Introduction to Economics
A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and foreign exchange fluctuations.
NOTE: Academic performance requirements are necessary as a condition for enrolment into ECO200-level courses. (See Economic Enrolment Criteria details at the Departmental Office at Erindale.) | 3L, 1T |
| ECO200Y | Microeconomic Theory
An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. <i>Exclusion:</i> ECO206Y, 210Y. <i>Prerequisite:</i> ECO100Y. | 2L |
| ECO202Y | Macroeconomic Theory and Policy: National Income, Money and Banking
Macroeconomics, monetary economics, economic stabilization, capital markets and international monetary economics. Theory of output, employment and the price level; techniques for achieving economic stability; central banking and Canadian financial institutions and markets; foreign exchange markets. <i>Exclusion:</i> ECO208Y, 212Y. <i>Prerequisite:</i> ECO100Y. <i>Corequisite:</i> (1982-83): MAT132Y/138Y. | 2L, 1T |
| ECO203Y | Modern European Economic History
The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1939. <i>Prerequisite:</i> ECO100Y. <i>Exclusion:</i> ECO101Y. | 2L |
| ECO206Y | Microeconomic Theory
This course deals more rigorously with the material included in ECO200Y and is intended primarily for students in the Economics Specialist programme. See Department for enrolment requirements. <i>Exclusion:</i> ECO200Y/210Y. <i>Prerequisite:</i> ECO100Y and MAT132Y/138Y. | 2L, 1T |
| ECO208Y | Macroeconomic Theory
This course deals more rigorously with the material included in ECO202Y and is intended primarily for students in the Economics Specialist programme. See Department for enrolment requirements. <i>Exclusion:</i> ECO202Y/212Y. <i>Prerequisite:</i> ECO100Y and MAT132Y/138Y. | 2L, 1T |
| ECO220Y | Quantitative Methods in Economics
An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypotheses, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. <i>Prerequisite:</i> ECO100Y and MAT132Y/138Y. <i>Exclusion:</i> STA202H, 212H, 242Y, GGR202H, 212H, PSY200H, 201H. | 2L, 1T |

- ECO221Y Canadian Economic History Since 1500** 2L
Canadian economic growth and development from the sixteenth century to the present. Reference to relevant topics in United States economic history, especially during the colonial period. *Exclusion:* ECO222Y. *Prerequisite:* ECO100Y.
- ECO244Y Industrial Relations** 2L
The role, structure, and performance of industrial relations within the framework of Canada's socio-economic-political system. Growth and history of the Canadian Labour movement: its philosophy and structure. Management's strategies and tactics in collective bargaining; public policy in the field of industrial relations; strikes in so-called emergency situations: the role of unions and collective bargaining in inflation.
- ECO311H Government Policy Toward Business** 2L
(A continuation of ECO366H)(Formerly part of ECO310Y)
Government policies affecting the private sector; possible improvements in current policies. Emphasis on competition and anti-combines policy, the regulated industries, the patent system, externalities and market failure, and the industrial implications of tariff policy. *Exclusion:* ECO310Y. *Prerequisite:* ECO366H. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO312H Economics of Public Regulation** 2L
The efficiency and equity aspects of the regulation of public utilities. Economic theory, finance, politics, empirical evidence, and administrative law. The recent deregulation movement. *Prerequisite:* ECO200Y/206Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO320Y An Economic Analysis of Law** 2L
This course will examine the economic basis for the law. The material will include an analysis of liability rules, including no-fault systems, workmen's compensation, consumer protection legislation, and medical malpractice. The appropriate economic measures of damages in tort cases will be discussed. Property rights will be considered in depth. Other topics include contracts, family law, the corporation, crime as an occupation, and law enforcement. *Prerequisite:* ECO200Y/206Y.
- ECO322Y History of Economic Thought** 2L
After a brief summary account of scholastic and mercantilist economics, the lectures will trace in some detail the development of analytical economics from the eighteenth century with special emphasis upon the work of the Physiocrats; Adam Smith; the British Classical School (particularly T.R. Malthus, David Ricardo, and J.S. Mill); the "marginalists" (particularly W.S. Jevons, C. Menger and L. Walras) and Marx. Later developments will be examined if time permits. A number of methodological issues are raised, particularly the relationship between economic events and economic theory, and the question of "bias" in economics. *Prerequisite:* ECO200Y/206Y and ECO202Y/208Y.
- ECO324Y Economic Development** 2L
Emphasis is on the economic conditions of low-income countries and the prospects of their economic transformation. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America. *Prerequisite:* ECO200Y/206Y and ECO202Y/208Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO325H Advanced Economic Theory - Macro** 2L
To develop analytical skills in construction and solving macro-economic models. *Prerequisite:* ECO202Y/208Y, MAT132Y/138Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO326H Advanced Economic Theory - Micro** 2L
Focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it. *Prerequisite:* ECO200Y/206Y, MAT132Y/138Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)

- ECO327Y Econometrics** 2L
The development and application of those statistical techniques that are used in the testing of the implications of economic theory. *Prerequisite:* ECO200Y/206Y, ECO202Y/208Y, ECO220Y/STA242Y.
- ECO333Y Urban Economics** 2L
The purpose of the course is two fold. To analyse the effects of government policies for regulating markets in urban areas using such examples as zoning, land speculation, rent control and strategies for pollution control. To evaluate current and proposed methods of providing and financing urban services including discussion of such topics as metropolitan government pricing of transportation services and the effect of the property tax. *Prerequisite:* ECO200Y/206Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO336Y Canadian Public Finance** 2L
The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization. *Exclusion:* ECO236Y, 345H. *Prerequisite:* ECO200Y/206Y, ECO202Y/208Y.
- ECO360Y Economic Transformation and Technological Change** 2L
To examine the economic transition in the industrial countries during their periods of industrialization. Emphasis is placed on the forces behind technological change; on the environmental consequences of industrialization and on contemporary problems such as energy resource allocation. *Exclusion:* ECO313H and 314H. *Prerequisite:* ECO200Y/206Y, ECO202Y/208Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO361H Economics and the Labour Market** 2L
The supply and demand for labour, labour mobility, patterns of unemployment and the operation of labour markets are analyzed. *Exclusion:* ECO339Y. *Prerequisite:* ECO200Y/206Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO362H Labour Economics and Labour Relations** (A continuation of ECO361H) 2L
Examines the economic aspects of trade unions and the effect of collective bargaining on earnings. Relationships between labour market conditions and the size of wage bargains are studied. The determinants of wage differentials and government manpower and educational policies are also considered. *Exclusion:* ECO339Y. *Prerequisite:* ECO361H.
- ECO363Y Modern Econmic Institutions** 2L
The economic analysis of modern economics from an institutional perspective. Topics will include the institutional foundations of the contemporary economies of Great Britain, Canada and the United States, West Germany, Sweden and Japan. Another principal theme is the relationships between plans and markets in the USSR, Eastern Europe and Yugoslavia. Finally, the interactions between traditions, markets and socialistic practices in East Africa will be examined. *Prerequisite:* ECO200Y/206Y and P.I.
- ECO364H International Trade Theory** (Formerly part of ECO328Y) 2L
An analysis of the nature, effects and policy implications of international trade theory; the theories of comparative costs and reciprocal demands, factor reward equalization, international tariffs and customs unions. *Exclusion:* ECO328Y. *Prerequisite:* ECO200Y/206Y, 202Y/208Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)

- ECO365H International Monetary Economics** 2L
(A continuation of ECO364H)(Formerly part of ECO328Y)
An analysis of the nature, effects and policy implications of international finance; balance-of-payments, and foreign exchange analysis; liquidity problems and related topics to current problems in international finance. *Exclusion:* ECO328Y. *Prerequisite:* ECO200Y/206Y, 202Y/208Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO366H Principles of Industrial Organization** (Formerly part of ECO310Y) 2L
The allocative implications of market failure and the operation of oligopolistic and imperfectly competitive markets. Measures of industrial concentration and other dimensions of market structure; models of firm behaviour in different market settings; case studies of particular industries. *Exclusion:* ECO310Y. *Prerequisite:* ECO200Y/206Y. *Recommended preparation:* ECO220Y/STA242Y. (Prerequisite 1982-83: ECO220Y/STA242Y.)
- ECO367H Welfare Economics** 2L
The basic ideas of welfare economics - especially Pareto efficiency and the question of the significance of Pareto efficiency - will be examined. Then a few particular topics (such as the economic implications of property rights; consumer surplus; and compensation tests) will be studied more intensively. *Prerequisite:* ECO200Y/206Y.
- ECO368H Economics of Poverty** 2L
Economic influences on the extent of inequality and poverty in Canada will be examined. These will include aggregate income levels, unemployment, inflation, regional development, education, low wage employment and discrimination. Canadian policies that affect the incidence of poverty are evaluated, and proposed programmes are critically analyzed. *Exclusion:* ECO340Y. *Prerequisite:* ECO200Y/206Y.
- ECO369H Advanced Economic Theory - Macro II** 2L
An extension of the macro-economic analysis developed in ECO325H. *Prerequisite:* ECO325H.
- ECO370H Economic Theories of Entrepreneurship** 2L
Economic analysis of the role of the entrepreneur in modern industrial economies, in Socialist economies, and in Third World countries. The course will include an analysis of the theories of entrepreneurship and the Property-Rights Public-Choice approach to entrepreneurship. *Prerequisite:* ECO200Y/206Y.
- ECO421H/422H Reading Course in an Approved Subject**
Open only when a faculty member is willing and available to supervise. Students must obtain the approval of the Discipline Representative. *Exclusion:* ECO424Y.
- ECO424Y Senior Seminar in Economic Analysis** 2L
Open only when a faculty member is willing and available to supervise. Students must be Economics Specialists and must obtain the approval of the Discipline Representative. *Exclusion:* ECO421H/422H.

ENGLISH

Faculty Advisor: Professor B. Corman

The Department of English offers a wide range of courses. Whether an individual course provides a knowledge of one author or one genre or an entire period, its aim is to deepen the student's awareness and appreciation of a distinguished literary tradition.

Courses are arranged in four series. This gradation denotes the level of work expected in the classroom. Thus, courses in the 100 series are introductory; the 200 series provides courses at an intermediate level; and more advanced courses appear in the 300 and 400 series. Although prerequisites are required for courses beyond the 100 series, students in other disciplines have a wide choice of courses. (Students from outside the Faculty wishing to take English courses should consult the Associate Chairman of the Department.)

The Specialist Programme outlined below provides the student with the opportunity to become acquainted with a range of authors, periods and critical approaches. The Specialist Programme is not designed especially for entrance into Graduate School; therefore, students contemplating further degrees should consult their instructors about graduate school requirements, including the customary language requirements. Similarly, students considering a teaching career in Ontario should consult the Faculty of Education about the requirements for Type A certification.

The student who desires information beyond what is set forth in this Calendar may obtain brochures from the various colleges. These describe the content of courses in fuller detail and supply lists of texts suggested by the individual instructors. Counselling is available from the Faculty Advisor as well as from other members of the English Faculty.

The 100-series courses are designed to introduce students to English studies at the university level and to develop their skills in critical reading and writing. The range of subject matter is broad, but all courses have certain aims and methods in common. Each course will include works of poetry, fiction or drama; while these materials will be studied as individual literary achievements and in their relation to the general subject matter of the particular course, they will also serve to familiarize students with different literary forms and a variety of critical approaches. Each course will also be concerned to encourage the close and careful reading of literary texts and to provide an opportunity for students to develop their writing abilities. 100 series courses are open to all students with fewer than nine courses and to other students who have standing in no more than one course in English. The 200-series courses are open to all students who have completed at least four full courses and to those with fewer than four full courses completed who are taking at least one 100-series course in English. The 300-series courses are open to all students who have completed at least four full courses, at least one of which must be in English. The 400-series courses are open to students who have completed at least nine full courses.

Please see Section 7 for details of Programme Requirement.

- ENG108Y Forms of Twentieth Century Literature** 3L
 An introduction to the study of literature through at least ten but not more than twelve works by modern authors, including three dramatists, three poets, and three novelists. At least one work shall date from after 1960. The authors shall include: Shaw, *Heartbreak House* or *Major Barbara*; Beckett, *Waiting for Godot* or *Endgame*; poems by two of Yeats, Eliot, Stevens; Joyce, *A Portrait of the Artist as a Young Man*; Faulkner, *As I Lay Dying* or *Light in August*.
- ENG112Y Major British Writers** 3L
 An introduction to the study of literature through a chronological consideration of no fewer than ten and no more than twelve works by major authors from the middle ages to the present day. Texts: Chaucer, the General Prologue to *The Canterbury Tales* and one tale; Shakespeare, *Antony and Cleopatra*; Milton, *Paradise Lost*, Books I & II, and IV & IX as selected in *The Norton Anthology of English Literature*; Congreve, *The Way of the World* or Shaw, *St. Joan*; two novels, at least one before 1900. In addition, no fewer than four of Spenser, *The Faerie Queene*, Book I; Donne, selections; Dryden or Pope, selections; Swift, *Gulliver's Travels*; Wordsworth or Keats, selections; Tennyson or Browning, selections; Yeats or Eliot, selections.
- ENG165Y English Literature: Forms and Approaches** 3L
 An introduction to the study of literature through works representative of the genres (e.g., drama, poetry, and novel) and through an examination of various critical approaches to literary works. At least ten but not more than twelve works will be studied. Texts: Shakespeare, *Hamlet* or *King Lear*; Congreve, *Love for Love* or *The Way of the World*; selections from the poetry of Donne or Marvell; More, *Utopia* or Swift, *Gulliver's Travels*; selections from the poetry of Keats or Hopkins; Fielding, *Joseph Andrews* or Austen, *Emma*; Forster, *A Passage to India* or Faulkner, *The Sound and the Fury*. At least three more works, to extend the range of forms and make possible additional approaches.

- ENG200Y Old English Language and Literature** (Offered in alternate years) 3L
A study of the language, literature and culture of the Old English period as represented principally in the surviving poetry. The first half of the course will attempt to develop fluency in the reading of Old English by concentrating on the grammar, syntax and style of works in both prose and poetry. The second half of the course will treat further major texts in Old English literature.
- ENG206Y English Literature of the Renaissance** 3L
Poetry: Sidney, Spenser, Shakespeare, Donne, selected poems; Spenser, *The Faerie Queene*, selections; selected poems by at least three of Jonson, Herrick, Herbert, Marvell, Vaughan and Milton (minor poems); Milton, *Paradise Lost* (selections).
Drama: Two or three plays. Prose: At least three of Sidney *Apology for Poetry*, Bacon, Donne, Milton, Browne. Supplementary reading: two or more of More, *Utopia*, Erasmus, *Praise of Folly*, Machiavelli, *The Prince*, Castiglione, *The Courtier* and Montaigne, *Essays*.
- ENG207Y Nineteenth-Century English Literature** 3L
Selected works by at least ten writers illustrating the range and characteristics of English poetry, fiction and prose in the nineteenth century. At least four authors from Scott, Jane Austen, Wordsworth, Coleridge, Byron, Shelley, Keats; and at least four from Carlyle, Newman, Mill, Tennyson, Browning, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Meredith, Hardy. Not more than three novelists will be studied.
- ENG212Y Shakespeare** 3L
Special study of not more than twelve plays by Shakespeare, including at least eight of the following: *Romeo and Juliet*; *A Midsummer Night's Dream*, *Richard II*; *Henry IV*, parts I and II; *Henry V*; *Twelfth Night*; *Measure for Measure*; *Hamlet*; *King Lear*; *Antony and Cleopatra*; *The Tempest*.
- ENG250Y American Literature** 3L
An introductory survey of major works in American Literature through the study of approximately twelve representative writers. Works to be studied include: Hawthorne, *The Scarlet Letter*; James, *The Portrait of a Lady*; Melville, *Moby-Dick*; Thoreau, *Walden*; Twain, *Adventures of Huckleberry Finn*; selected poems by Whitman; a novel by Faulkner; selected poems by one of: Eliot, Frost, Stevens.
- ENG252Y Canadian Literature in English** 3L
An introductory survey of Canadian poetry, prose and drama. Texts: Moodie, *Roughing it in the Bush*; Ross, ed., *Poets of the Confederation*; Leacock, *Sunshine Sketches*; Grove, *Master of the Mill*; Laurence, *A Bird in the House*; Richler, *The Apprenticeship of Duddy Kravitz*; works by two of: Callaghan, MacLennan, Ross, Davies, Munro; poems by Pratt, Klein, Birney; at least four other works, one of which must date from before 1900 and two of which must be plays.
- ENG254H Canadian Drama** 3L
Canadian plays, with emphasis on major playwrights and on developments since 1940 but with attention also to the history of the theatre in Canada.
- ENG256Y Modern Canadian Fiction** (Formerly ENG356Y) 3L
A survey of the historical development and contemporary state of Canadian fiction in English. A minimum of fifteen works will be studied, including at least one by six of the following principal authors: Duncan, Leacock, Grove, Callaghan, MacLennan, Buckler, Lowry, Davies, Laurence, Richler, Munro, Atwood. A selection of short stories may be included.

NOTE: Special Studies

ENG259H, 262H, 263H, 264H and 267H are "special studies" half-courses which are offered for the 1981-82 Session only, subject to the general regulations of the Department of English. The Department reserves the right to withdraw these courses.

- ENG259H Children's Literature** 3L
An historical and critical study of works written for or appropriated by children. At least twelve works chosen from prose, poetry, and drama will be read, including *Pilgrim's Progress*, *Alice in Wonderland*, *Gulliver's Travels*, *Treasure Island*, *A Midsummer Night's Dream*, *The Wind in the Willows*, *Adventures of Huckleberry Finn*, *The Borrowers*, *The Hobbit* and nursery rhymes.
- ENG262H The Detective Novel** 3L
A survey of the genre based on a selection of authors (who transcend the limitations of the formula), among them: Wilkie Collins, Dickens, Chesterton, Dorothy Sayers, Dashiell Hammett, Raymond Chandler, J.D. Carr, and Faulkner.
- ENG263H Science Fiction** 3L
A survey emphasizing the genre as a vehicle for philosophical, political, religious, and ideological positions in the guise of entertainment. Among the authors studied will be: Poe, Verne, H.G. Wells, Olaf Stapledon, E.A. Abbot, Jack London, Huxley, Orwell, A.C. Clarke, and John Wyndham.
- ENG264H Writing and Technology** 3L
Introduction to the history of text-processing technology, from medieval scriptorium to printing press and computerized word-processor; and the effects of writing machinery on general literary composition and works of major authors. Students will learn to use a computer text-editing system but need have no background in computers or English literary history.
- ENG265H The Short Story** 3L
An introduction to fiction through short stories of various kinds, written mainly in the 19th and 20th Centuries. Authors include: Hawthorne, Poe, James, Conrad, Kipling, Joyce, Lawrence, Mansfield, Faulkner, Hemingway, Singer, Gallant.
- ENG267H Literature and the Machine Age** 3L
Canadian, British and American literature directly concerned with the machine, technology and their effects on society. Works chosen from poetry by Blake, Lampman, Crane, Sandburg; novels by Dickens, Steinbeck, Orwell, Grove; readings from Marx, *The Machine in the Garden*; Grant, *Technology and Empire*.
- ENG302Y English Poetry and Prose, 1500-1600** 3L
Poetry: Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, Book I; at least two other Books; and the *Mutabilitie Cantos*), and Donne. Other poets may be added. Prose: More, *Utopia*; Sidney, *Apology for Poetry*. Selections from at least two of: Elyot; Ascham; Hakluyt; Hooker; Lyly; Sidney, *Arcadia*; Nashe and Deloney. Supplementary readings from such authors as Erasmus, Castiglione, Machiavelli and Ariosto may be prescribed.
- ENG304Y English Poetry and Prose, 1600-1660** (Offered in alternate years) 3L
Poetry of Donne, Jonson and their successors; Milton. Prose from writers of the period e.g. Bacon, Browne, Burton, Milton, Traherne.
- ENG306Y English Poetry, Prose and Drama, 1660-1800** 3L
Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young; with particular attention to Dryden, Pope, Swift and Johnson.
- ENG308Y Romantic Poetry** (Offered in alternate years) 3L
Poetry and critical prose of Blake, Wordsworth, Coleridge, Byron, Shelley, Keats; may include brief selections from other writers such as Crabbe, Scott, Landor, Clare.
- ENG312Y Chaucer** 3L
The Canterbury Tales; *Troilus and Criseyde*; selections from Chaucer's other works.

- ENG317Y Major American Authors** 3L
A close study of works by four or five authors including one author before 1900 and one after; at least three of the authors will be chosen from the following: Emerson, Cooper, Dickinson, Hawthorne, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens, Faulkner. *Exclusion:* ENG218Y, 318Y, 319Y.
- ENG322Y Fiction Before 1832** (Offered in alternate years) 3L
At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Austen and Scott. Three of the works will be: Richardson, *Pamela* or *Clarissa*; Fielding, *Joseph Andrews* or *Tom Jones*; Sterne, *Tristram Shandy*.
- ENG324Y Fiction, 1832-1900** 3L
At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Bronte, George Eliot and Hardy.
- ENG328Y Fiction, 1900-1950** 3L
At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence and Faulkner.
- ENG332Y English Drama to 1642** (Offered in alternate years) 3L
Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; two or more plays by Marlowe; Shakespeare: at least seven of the following: *Love's Labour's Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson; and a selection of works by at least six other Jacobean dramatists.
- ENG338Y Modern Drama** 3L
A minimum of twenty representative modern plays; one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter.
- ENG348Y Modern Poetry** (Offered in alternate years) 3L
Special study of Hopkins, Yeats, Pound, Eliot, Stevens; selections from other poets.
- ENG354Y Modern Canadian Poetry** 3L
Fifteen or more poets from the twentieth century, at least six to be chosen from the following: Pratt, F.R. Scott, A.J.M. Smith, Birney, Layton, Livesay, Klein, Avison, Purdy, Souster, Reaney.
- ENG369Y Seminar in Writing** 3L
Restricted to students who in the opinion of the Department show special aptitude. A section devoted to a workshop in play-writing and the analysis of plays will normally be available. *Prerequisite:* Permission of Instructor.
- ENG390Y Individual Studies**
A scholarly project chosen by the student and supervised by a member of staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 235 (North Building). *Prerequisite:* Three courses in English.
- ENG391Y Individual Studies**
A project in creative writing chosen by the student and supervised by a member of the staff. The form of the project and the manner of its execution will be determined in consultation with the supervisor. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 235 (North Building). *Prerequisite:* Three courses in English, including ENG369Y.
- ENG417Y Studies in 19th-Century Literature** 3S
Prerequisite: Three courses in English, including ENG207Y/308Y/324Y/346Y/368Y.

- ENG466Y Comprehensive Studies**
Supervised reading for three substantial examinations, one each on general literary history, practical and theoretical literary problems, and an area of the student's choice. *Prerequisite:* Open only to students who have obtained standing in at least fourteen full courses, at least three of which must be in English. Proposal forms are available in Room 235 (North Building).
- ENG467Y Seminar in Theory and Criticism of Literature** 3S
For description consult Departmental brochure. *Prerequisite:* Normally three previous courses in English.
- ENG469Y Senior Essay**
A scholarly project chosen by the student and supervised by a member of the staff. All project titles should be approved by the Associate Chairman by April 15, and none will be accepted after September 15. Proposal forms are available in Room 235 (North Building). *Prerequisite:* Open only to students who have obtained standing in a least fourteen full courses, at least three of which must be in English.

EARTH AND PLANETARY SCIENCE

(Geology and Geophysics)

Faculty Advisors: Professors H.C. Halls, I.H. Campbell, D.R. Kobluk, G.W. Pearce, P.-Y.F. Robin, R.M. Stesky.

Earth and Planetary Science is concerned with the origin, evolution and structure of the Earth and planets, through the combined analysis of physical, chemical and biological processes. Recent theories of global dynamics and rapidly expanding horizons in lunar and planetary research are providing new insights into our understanding of the Earth's behaviour and of its relationship to other planets.

In society, the Earth Scientist plays two important roles; he searches for materials of economic value and evaluates potential hazards in our natural environment. The exploration and development of natural resources constitutes one of the largest and most fundamental industries in Canada, and has always been a major employer of earth scientists, either as geologists or geophysicists. For many years the occurrence of earthquakes, volcanic eruptions and other natural hazards have been monitored on a global scale. Recent advances in the understanding of these phenomena have enabled earth scientists to become more involved in seeking ways to predict or even control them.

A career in Earth Science may lead to work in many parts of the world, under a wide variety of field conditions. Laboratory studies are also needed to supplement field observations and often require the use of sophisticated analytical equipment.

Erindale offers a broad spectrum of courses in Earth and Planetary Science, encompassing the fields of geophysics, structural geology, sedimentology, petrology, stratigraphy and paleontology. Three specialist programmes are presently offered, which may lead respectively to careers in Geology, Geophysics or Geochemistry. These programmes are outlined in Section 7 of this calendar; note that fourth-year courses are taken on the St. George campus. A major programme is also described. Many courses offered in Earth and Planetary Science may be useful to students specializing in other fields such as Environmental Geography, Survey Science, Biology and Anthropology.

Please see Section 7 for details of Programme Requirement.

- EPS100H The Restless Earth** 2L, 1T
A course suitable for students in Humanities and Social Sciences which focuses on the structure and evolution of the Earth, its Moon, and other planets in the Solar system. Plate tectonics, and space missions to other planets have recently revolutionized our understanding of our own planet and its relation to its neighbours in space. *Exclusion* EPS120Y.

- EPS110H Man and the Earth** 2L, 1T
A course which emphasizes the impact of natural earth processes on human activity. Topics include: the monitoring, prediction and control of natural hazards such as earthquakes, volcanic eruptions and avalanches; the search for oil and mineral wealth; the application of Earth Science to Archaeology and Medicine. Suitable for students in Humanities, Social Sciences, Physical and Biological Sciences.
- EPS115H Life and the Oceans** 2L
An overview of the history of life and the oceans from the present back to approximately 3,500 million years. The main thrust is the marine ecosystem, animal and plant evolution in the oceans, and the relationships between organisms and the physical ocean environment throughout the history of life on earth. Suitable for students in Humanities, Social Sciences, Physical and Biological Sciences. *Recommended preparation:* High school biology and/or geography/geology.
- EPS119H Elementary Mineralogy** 2L, 1T
The Earth's minerals show a wide range in colour, crystal form and other physical properties. This course discusses how minerals form, where they occur and how they may be identified. Lectures are illustrated with specimens of common rock-forming minerals as well as the rare gem and ore varieties. *Exclusion:* EPS120Y.
- EPS120Y Introduction to Earth and Planetary Science** 2L, 3P
An introduction for Science students to the study of planetary evolution and behaviour, through examination of the shape, motion and internal constitution of the Earth and Moon, and the physical and chemical processes that control their surface and internal characteristics. The course includes several field excursions, and is recommended for anyone with a serious or peripheral interest in practical Earth Science. *Exclusion:* EPS100H, EPS119H. *Prerequisite:* Grade 13 MAT R&F/CHM/PHY/BIO.
- EPS124Z Geology Laboratory** 3P
This course consists of the laboratory section of EPS120Y. Those students who take EPS100H and who achieve a satisfactory mark will be eligible upon permission of the Department to enter EPS Specialist Programmes by taking EPS124Z. *Exclusion:* EPS120Y. *Prerequisite:* Any two of EPS100H, 110H, 115H.
- EPS200H Introductory Stratigraphy and Sedimentology** 2L, 3P
Introduction to the principles of biostratigraphy, lithostratigraphy, and sedimentology. Application of geologic modelling to the interpretation of regional stratigraphic sequences and the geologic history of North America, with special emphasis on Southern Ontario. *Prerequisite:* EPS120Y/(EPS100HEPS124Z).
- EPS219H Mineralogy** 2L, 3P
A course in mineralogy for students who wish to pursue careers in Earth Sciences and Geography. Lecture material covers the principles of mineralogy: crystallography, physical and chemical properties of minerals, their formation and occurrence; descriptive mineralogy of some 70 species. Practical work is devoted to crystal and mineral recognition. *Prerequisite:* EPS120Y/(EPS100HEPS124Z). *Corequisite:* CHM118Y/150Y.
- EPS221H Optical Mineralogy** 2L, 3P
An introduction to optical mineralogy, the use of the petrological microscope, and the chemistry of natural minerals. *Prerequisite:* EPS219H. *Corequisite:* CHM118Y/150Y.
- EPS236H Introductory Global Geophysics** 2L, 3P, 1T
An introduction to the methods of geophysics and physical geology as these are applied to our understanding of large scale features of the earth's crust, and of the structure of the earth's mantle and core. *Prerequisite:* EPS100H/120Y; MAT132Y/138Y; PHY118Y/140Y.

- EPS237H Exploring the Solar System** 2L, 1P
An examination of the recent great accumulation of knowledge of the sun, planets and other members of our solar system. The course will concentrate on the terrestrial planets Mars, Earth, Venus, and Mercury, because of our greater knowledge of them through numerous landing, orbiting and flyby observations. The asteroids, the giant planets and their satellites will be discussed particularly as they pertain to theories of the origin and evolution of the solar system. *Exclusion:* AST310H. *Prerequisite:* MAT132Y/138Y; one 100 level AST/CHM/EPS/PHY course.
- EPS270H Invertebrate Paleontology** 2L, 3P
The major groups of invertebrate organisms and marine plants preserved in the fossil record. Identification of major fossil groups, basics or invertebrate paleoecology, and stratigraphic paleontology. *Prerequisite:* EPS200H.
- EPS320H Igneous Petrology** 2L, 3P
Principles of classification and interpretation of igneous rocks. Practical work emphasizes recognition and description of igneous rocks in hand specimens and petrographic thin sections. *Prerequisite:* EPS221H.
- EPS321H Metamorphic Petrology** 2L, 3P
Principles of classification and interpretation of metamorphic rocks. Practical work emphasizes recognition and description of metamorphic rocks in hand specimens and petrographic thin sections. *Prerequisite:* EPS221H.
- EPS322H Structural Geology I** 2L, 3P
An introductory study of deformation in the Earth: review of plate tectonics; analysis of the development of large scale structures such as domes, folded mountain belts and cratons; description and physics of the continuous deformation of rocks at high temperatures and depth; tectonic significance of folds and of rock structures and textures. *Prerequisite:* EPS200H, 221H. *Corequisite:* PHY118Y/140Y.
- EPS325Z Field Course I**
A field course in the Elliot Lake-Sudbury area emphasizing elementary mapping methods and basic field techniques applicable to structural-stratigraphic studies. A fee, recently \$90, is charged to cover part of the cost of transportation and accommodation. The course is conducted immediately following the conclusion of the Spring examinations. *Prerequisite:* EPS200H, 221H.
- EPS330H Phase Diagrams For Geologists** 3L
Application of phase equilibrium to the study of minerals, rocks and ores. Topics include the phase rule, multi-component diagrams as applied to igneous rocks, systems under confining pressures, and reactions involving water, carbon dioxide, oxygen and sulfur relating to metamorphic rocks and ore deposits. *Prerequisite:* CHM118Y/150Y, EPS221H.
- EPS332H Structural Geology II** 2L, 3P, 1T
A continuation of EPS322H, emphasizing the dynamics of discontinuous deformation. Topics include stress analysis, the physics of brittle deformation, the tectonic significance of faults and fractures, an analysis of mountain belt formation, earthquake prediction, and the structural control of ore deposits. Practical work includes laboratories on graphical methods in structural analysis. *Prerequisite:* EPS322H.
- EPS334H Advanced Physics of the Earth** 2L, 1T
A continuation of EPS236H, emphasizing the quantitative physical description of the Earth. Topics covered in detail are: radiometric dating of rocks; the rotation and dynamics of the Earth; the Earth's gravitational and magnetic fields; and the internal structure of the Earth from seismic evidence. Extensive use is made of potential methods and solution of partial differential equations. *Prerequisite:* EPS235Y/236H.

- EPS337H Exploration Geophysics I** 2L, 3P
An introduction to the geophysical methods used in the search for mineral deposits. Basic principles, instrumentation, field procedures and elementary interpretation techniques are outlined for gravity, magnetic and seismic methods. Practical work will emphasize field surveys. *Prerequisite:* EPS200H, 219H; PHY118Y/140Y.
- EPS338H Exploration Geophysics II** 2L, 3P
A continuation of EPS337H with emphasis on electrical and electromagnetic methods. Practical work consists of laboratory exercises and experiments designed to simulate natural situations. For those students who have completed the course and EPS337H, a series of weekend field trips are available, arranged by the Geophysics Division on the St. George Campus, just prior to the beginning of the fall term. *Prerequisite:* EPS337H. *Recommended preparation:* PHY230Y.
- EPS345H Sedimentology** 2L, 3P
Principles of clastic and chemical sedimentation. Hydraulics of sediment transport; origin of primary sedimentary structures; diagenesis of sediment; study of sediments and sedimentary rocks in hand samples and petrographic thin sections. *Prerequisite:* EPS200H, 221H.
- EPS365H Marine Geology** 2L, 1T
The morphology, structure and evolution of the ocean basins are examined within a global tectonic framework. *Prerequisite:* EPS200H, 219H.
- EPS370H Invertebrate Palaeoecology and Dynamics** 2L, 3P
The basic principles of palaeoecology and ecology in the ocean realm from the present back in time to about 600 million years. A modern and ancient analog approach is used to illustrate ancient ecosystem behaviour using living systems. Among topics treated are deep ocean basin communities, shallow shelf communities, and tropical reef environments. Field trips in the Ontario region and a trip to the Caribbean are planned. *Prerequisite:* EPS270H. *Recommended preparation:* BIO100Y or EPS115H.
- EPS425Z Field Course II**
A 10-day course held in the Tweed-Hungerford area of Ontario. One week is devoted to instruction and practice on basic geological mapping and one week to detailed structural analysis. A fee, recently \$100.00, is charged to cover part of the cost of meals and accommodation. The course is held immediately following the conclusion of the Spring examinations. *Prerequisite:* EPS320H, 321H, 322H, 345H.
- EPS470Y Research Project**
A student research programme under the supervision of the staff. Copies of typed reports to be submitted by April 1st. *Prerequisite:* Any 2 full course equivalents from the EPS300-series, plus a 75% average in the last 5 courses taken. *Exclusion:* EPS472H.
- EPS472H Research Project**
A student research programme under the supervision of the staff. Copies of typed report must be submitted one week prior to the end of term classes. *Exclusion:* EPS470Y. *Prerequisite:* P.I.

FINE ART

Faculty Advisor: Professor B. Welsh

The study of works of art provides insight into the nature of the societies in which they were created, and is one of the ways of gaining understanding of human culture in general. More specifically, the creative process leading to the making of a work of art is a subject worthy of study in its own terms. Students of Art History and Studio Art attempt to comprehend and interpret this process through learning critical and research methods and through actual practice. The subjects of their study are the visual arts: architecture, sculpture, painting and the minor arts. Such studies also complement related disciplines, of which history, philosophy and literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or university levels, careers in illustration and design, or independent artistic activities. For post-graduate work in the History of Art, a reading knowledge of French and German and, depending upon special interests, Italian or Latin or Greek is required; this can be most easily obtained during the undergraduate years.

Erindale College offers courses in both Art History (FAH) and Studio Art (FAS). The student can work toward a specialization in these areas, or follow a programme of combined Art History and Studio courses. (See the Calendar of the Faculty of Arts and Science, University of Toronto, for a description of the requirements for specialization in Art History.)

A special programme in Art and Art History is conducted in co-operation with Sheridan College of Applied Arts and Technology. After three years of a combined Art History and Studio Art course the student will obtain a B.A. degree in preparation for entering the Type B Certificate course at the Faculty of Education, for further studies in art, or in preparation for a career. Credits in Studio Art are obtained by enrolling for those courses which are held at Sheridan College of Applied Arts and Technology. Selected students enrol for five credits in Studio Art during their degree programmes. The remaining arts and science credits will be taken from the regularly scheduled courses offered by Erindale College, and it is required that a minimum of three of these courses be in Art History.

It should be noted that all of the courses at Sheridan College are half courses. Ten of these half courses must be taken in order to complete five Studio credits.

Those students who hope to use the Studio credits to complete a four-year specialization in Fine Art (Studio) must apply to the Department of Fine Art at the St. George Campus, where each application will be judged on an individual basis.

Students who seek to enter the Art and Art History Programme or to specialize in Fine Art are required to consult and enrol with the Faculty Advisor. A joint specialization in Fine Art and Urban Studies is also available. Interested students should consult the Faculty Advisors in both of these Disciplines.

In order to be eligible for enrolment in a Sheridan FAS course, students must be members of the Art and Art History programme. They must make certain that their names are on a master list in the Registrar's Office, Room 216, North Building.

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| FAH101Y | Greek and Roman Art | 3L |
| | The art of Greece and Rome. The importance of architecture and the arts as characteristic expressions of their age. Detailed study of the outstanding monuments. | |
| FAH102Y | Medieval Art and Architecture | 2L, 1T |
| | A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, and Early and Late Medieval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. | |
| FAH200Y | European Art from 1400 to 1750 | 2L, 1T |
| | Major forms of expression in the visual arts - architecture, painting and sculpture - with special emphasis on visual analysis. Political, religious and general cultural movements.
<i>Prerequisite:</i> FAH101Y/102Y. | |
| FAH210Y | European Art from Neo-classicism to 1940 | 2L, 1T |
| | Developments in the main tradition of Western painting and sculpture. <i>Exclusion:</i> FAH208H, 209H, 283H, 284H. <i>Pre or Corequisite:</i> FAH200Y. | |
| FAH211H | Architecture in the Western World Since the Birth Of Neo-Classicism | 2L |
| | (Offered in alternate years)
A survey of principal developments in the history of Western architecture since the mid-eighteenth century. <i>Recommended preparation:</i> FAH200Y. | |
| FAH256H | Ancient Rome (Offered in alternate years) | 2L |
| | Development of the city of Rome, from early times to the Late Empire. Buildings and monuments and their place in the life of the ancient city. Readings in topography, art and architecture, and history. | |

- FAH267H The Graphic Arts** (Offered in alternate years) 2L
A history of the medium of print as art in Western tradition since 1400. Book illustration; the role of prints in disseminating images and styles among the arts.
- FAH304H Piero Della Francesca and His Place in Quattrocento Painting** 2S
(Offered in alternate years)
An investigation into the sources and development of ideal space as well as ideal forms in the paintings and writings of Piero della Francesca and his followers. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or French.
- FAH305H Piero Della Francesca in Florence and Rome** (Offered in alternate years) 2S
An investigation of the transformation from a Quattrocento to a High Renaissance Classicism in Florentine and Roman painting of the late 15th and early 16th Centuries. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or French.
- FAH310Y Painting and Sculpture in Canada and the United States** 3L
(Offered in alternate years)
These arts in North America since the late 17th century: their relationship to European traditions, the growth of distinctive national styles, and international interaction. *Prerequisite:* FAH200Y/210Y/301Y/287H.
- FAH315H Realism** (Offered in alternate years) 2S
An examination of this mid-nineteenth century movement in French painting and sculpture with particular emphasis on Courbet, Millet, the Barbizon School, Daumier and Manet. *Pre or Corequisite:* FAH210Y/283H/301Y and P.I. *Recommended preparation:* A reading knowledge of French.
- FAH318H Vincent Van Gogh and Nineteenth Century European Painting** 2S
(Offered in alternate years)
The role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. *Prerequisite:* FAH210Y/301Y and P.I. *Recommended preparation:* A reading knowledge of French, German or Dutch.
- FAH319H The Expressionist Tradition in Twentieth Century Painting And Sculpture** 2S
(Offered in alternate years)
A continuation of FAH318H, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro and Pollock, Borduas and Riopelle. *Pre or Corequisite:* FAH210H/301Y and P.I. *Recommended preparation:* A reading knowledge of French or German.
- FAH327H Giotto and Duccio** (Offered in alternate years) 1L, 1T
The position of these artists in the sequence of Italian painting, their masterworks in Padua, Florence and Siena seen in relation to the work of their predecessors and followers. *Exclusion:* FAH326Y. *Prerequisite:* FAH102Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH328H Italian Medieval Sculpture** (Offered in alternate years) 1L, 1T
Selected topics in the history of Italian medieval sculpture, concentrating on the careers of the Emilian masters of the twelfth century and the Pisani in the thirteenth and early fourteenth. *Exclusion:* FAH326Y. *Prerequisite:* FAH102Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH330Y Raphael and Michelangelo As Painters** (Offered in alternate years) 2S
An investigation of the late pictorial works of Raphael and Michelangelo which completed the decoration of the Sistine Chapel, and also of Michelangelo's Peter and Paul cycles in the adjacent Pauline Chapel. The influence of these works on both Northern and Southern European paintings will be considered. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or German.

- FAH331H **Fifteenth and Sixteenth Century Italian Sculpture** (Offered in alternate years) 1L, 1T
The development of Renaissance sculpture from Ghiberti to Michelangelo, with an emphasis on the works of Donatello and Michelangelo. The impact of the latter's achievement on the succeeding generation of Mannerist sculptors such as Cellini, Ammannati and Sansovino. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH332H **Studies in Baroque Painting** (Offered in alternate years) 1L, 1T
Its origins in Northern Italian painting and its subsequent manifestation in the aesthetic of Caravaggio, Annibale Carracci and their followers throughout Europe. Seventeenth century academies of art will also be considered. *Prerequisite:* FAH200Y. *Recommended preparation:* A reading knowledge of Italian or German.
- FAH336H **The Ideal City** (Offered in alternate years) 1L, 1T
The origin and development of central plan architecture and of attempts to reconstruct urban environments in the Renaissance and Baroque periods; the theory underlying circular, Greek cross and oval plan structures; the extension of these plans to villas, palaces, city squares and plans. *Prerequisite:* FAH101Y/102Y/P.I. and FAH200Y. *Recommended preparation:* A reading knowledge of French, German or Italian.
- FAH365H **The Medieval City** (Offered in alternate years) 2L
A study of the medieval city, seen within its intellectual, social and political context. The course will concentrate on the forms and uses of public buildings, religious and secular, and of domestic architecture, and will include a consideration of the patronage and practice of the arts as an aspect of town life. *Exclusion:* FAH265H. *Prerequisite:* FAH102/P.I.
- FAH370H **Gothic Architecture** (Offered in alternate years) 2L
A study of the forms, uses and decoration of West European architecture between ca 1140 and ca 1400. *Prerequisite:* FAH102Y or P.I. *Recommended preparation:* A reading knowledge of French.
- FAH445H **Portraiture from 1400-1750** (Offered in alternate years) 1L, 1T
Portraits of individuals of various social strata. Topics such as the social position of the artist as artisan or practitioner of the Liberal Arts; the aggrandizement of the prince and his dynasty in allegorical portraits; the female portrait as model of virtue, aesthetic and sex object; the male portrait as exemplar of leadership, image of impotency and self-doubt. *Prerequisite:* FAH101Y, 102Y, 200Y. *Recommended preparation:* SOC101Y. Knowledge of social history of the 15th-17th centuries. A reading knowledge of French, German or Italian.
- FAH446Y **Art and Literature** (Offered in alternate years) 2S
Consideration of various types of illustrative art, including illustrated texts and history and genre painting, and, where appropriate, of the relationship of text to picture. The problems chosen for study will be selected from the late antique to the modern period. *Prerequisite:* Any three Art History courses and P.I.
- FAH447H **Cubism and Related Movements** (Offered in alternate years) 2S
An investigation of the birth and development of Cubism, Futurism and Orphism in Europe, America and Canada. *Prerequisite:* FAH210Y and P.I. *Recommended preparation:* A reading knowledge of French or Italian.

STUDIO ART COURSES (Taught at Sheridan College)

In order to be eligible for enrolment in a Sheridan FAS course, students must be members of the Art and Art History programme. They must make certain that their names are on a master list in the Registrar's Office, Room 216, North Building.

The programme consists of 5 credits (2 in each of the first 2 years, 1 in the third). No more than 5 credits may be taken. *It should be noted that all the courses listed are half-courses of the type that is taught throughout the entire year, and that they are subject to limited enrolment.* It is required that students in the Combined Programme maintain a balance between academic and studio courses.

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| FAS143H | Drawing I (DGE 6170 Sheridan)
An introduction to drawing media and techniques combining practice with analysis of draughtsmanship in stylistic and technical terms. <i>Corequisite:</i> One full FAH course. | 3P |
| FAS145H | Painting I (PGE 6170 Sheridan)
An exploration of various painting materials, discovering their characteristic properties as expressed in visual language. <i>Corequisite:</i> One full FAH course. | 3P |
| FAS146H | Design I (DNE 6140 Sheridan)
Fundamental concepts and design processes developed through manipulation and analysis of specific problems. <i>Corequisite:</i> One full FAH course. | 3P |
| FAS147H | Photography I (PYE 6150 Sheridan)
The potential of photography as a creative communication form. Studio and classroom instruction alternating with darkroom practices. Various camera systems will be discussed. <i>Corequisite:</i> One full FAH course. | 3P |
| FAS244H | Printmaking I (PME 6240 Sheridan)
An introduction to relief and intaglio processes and materials encouraging experimentation and the exploration of contemporary visual concerns. <i>Prerequisite:</i> FAS145H and FAS146H. <i>Corequisite:</i> One full FAH course. | 3P |
| FAS245H | Drawing and Painting II (DGE 6270 Sheridan)
A continuation of FAS143H and FAS145H (DGE6150 and PGE6170). To further expertise in major painting media and to further exploration of visual problems within the framework of 20th Century modes. <i>Prerequisite:</i> FAS143H (DGE6150), FAS145H (PGE6170). <i>Corequisite:</i> One full FAH course. | 3P |
| FAS246H | Design II (DNE 6240 Sheridan)
Graphic translation of the creative process is extended to explore the many issues, possibilities and recent directions in the visual expression of three-dimensional form. <i>Prerequisite:</i> FAS146H. <i>Corequisite:</i> One full FAH course. | 3P |

ONE OF:

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| FAS247H | Photography II (PYE 6250 Sheridan)
The aims of the course are to develop further the technical skills acquired during the first year, to investigate and experiment with the historical and conceptual approaches to the photographic medium, and to encourage the personal style of each student. <i>Prerequisite:</i> FAS147H. <i>Corequisite:</i> One full FAH course. | 3P |
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| FAS248H | Three Dimensional Design (TDE 6270 Sheridan)
This course explores the application of three dimensional concepts through direct manipulation of both contemporary and traditional materials. <i>Prerequisite:</i> FAS146H (DNE6140). <i>Corequisite:</i> One full FAH course. | 3P |
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ONE OF:

- FAS344H Sculpture A (CSE 6370 Sheridan)** 3P
An exploration of contemporary concepts in sculpture with materials and methods ranging from the traditional to a more experimental approach. *Prerequisite:* FAS246H. *Corequisite:* One full FAH course.

OR

- FAS345H Sculpture B (MLE 6370 Sheridan)** 3P
The study and development of sculptural works proposed for specific architectural and/or landscape sites. Presentation of works will include maquettes, site and fabrication drawings, renderings and photographic simulations. Criteria for evaluation will include: contextual relevance, staging, physical properties and environmental relationship. *Prerequisite:* FAS246H. *Corequisite:* One full FAH course.

ONE OF:

- FAS346H Drawing and Painting III (DGE 6370 Sheridan)** 3P
A continuation of FAS245H (DGE6270). Greater attention will be given to individual development in the perceptual and conceptual understanding of contemporary art. *Prerequisite:* FAS245H (DGE6270). *Corequisite:* One full FAH course.

OR

- FAS349H Printmaking II (PME 6340 Sheridan)** 3P
Exploration of more advanced relief intaglio processes and materials, together with a deeper investigation of visual expression. *Prerequisite:* FAS244H. *Corequisite:* One full FAH course.

FRENCH

Faculty Advisor: Professor M.-P. Ducretet

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and North American patterns of thought is complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide the basis for the study of our French heritage.

For students wishing to pursue a programme leading to a high level of competence in French, we offer two series of language courses (FRE101Y, 121Y, 161Y, 261Y and 361Y, for non-specialists; FRE171Y, 271Y, 371Y, for specialists) using modern methods and maximizing the individual's contact with his instructor. Native speakers of French are not permitted to take for credit FRE161Y, FRE171Y, FRE261Y, nor FRE271Y. Such students, however, will be admitted to any course for which FRE171Y and FRE271Y are prerequisites.

For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for specialist certification in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and Québécois literatures.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpretation, and teaching, as well as to graduate study.

NOTE: Students who began their programme prior to 1981-82 may elect to follow the current specialist, major, minor requirements, or those which were in force when they enrolled, but may not combine the two.

Please see Section 7 for details of Programme Requirement.

NOTE: All courses listed below may be counted toward a Specialist or Major programme in *French Language and Literature*, a Combined Specialist or Combined Major in *Modern Languages and Literatures*, in *Latin and French* or in *Linguistics and French*, with the following exceptions: FRE101Y, 121Y, 161Y, 202Y, 204Y, 261Y, 361Y.

FRE140Y is the normal prerequisite for further literature courses in the Department (except FRE202Y, 204Y); exceptionally, FRE140Y may be taken as a co-requisite along with a higher-level literature course, or, subject to departmental approval, a literature course from another Department may serve as prerequisite.

- FRE101Y Introductory French I** 3S, 2P
A basic course for beginners in spoken and written French: comprehension, speaking, reading, and writing. *Exclusion:* Not open to students who have studied French in secondary school; not open to native speakers of French.
- FRE121Y Introductory French II** 3S, 2P
Spoken and written French, reinforcing oral/aural competence, reading comprehension, and writing skills. *Exclusion:* Not open to native speakers of French, nor to students with standing in Grade 13 French. *Prerequisite:* FRE101Y, or some background in secondary school French.
- FRE140Y Studies in Modern French and Québec Literature** 2L, 1T
Techniques of literary criticism and analysis, based on a detailed study of works selected from the novel, drama and poetry of the nineteenth and twentieth centuries. *Corequisite:* FRE161Y/FRE171Y.
- FRE161Y Practical French I** 3S
For students primarily interested in other fields of study who wish to maintain and improve their general knowledge of French. Major stress will be placed on the development of aural/oral skills, acquisition of vocabulary, reading comprehension, rather than on intensive grammar. *Exclusion:* FRE171Y. Not open to native speakers of French. *Prerequisite:* FRE121Y/Grade 13 French.
- FRE171Y Language Practice I** 3S, 2P
A course designed to help students reinforce and develop those language skills (understanding, speaking, reading and writing) necessary for active participation in courses offered by the Department. *Exclusion:* FRE161Y; not open to native speakers of French. *Prerequisite:* FRE121Y/Grade 13 French.
- FRE220Y The Literature of Classicism** (Offered in alternate years) 1L, 1T
Major writers of the seventeenth century, with emphasis upon the aesthetic and moral characteristics which constitute "classicism". *Prerequisite:* FRE171Y, 140Y.
- FRE224Y The Literature of Romanticism** (Offered in alternate years) 1L, 1T
French Romantic poetry, novels and plays of the eighteenth and nineteenth centuries. Origins of the movement and its later manifestations. *Prerequisite:* FRE171Y, 140Y.
- FRE230Y The Literature of Québec** 1L, 1T
Selected prose, drama and poetry of the twentieth century, using various critical approaches. *Exclusion:* FRE204Y. *Prerequisites:* FRE171Y, 140Y.
- FRE254H Drama from 1800 to 1900** (Offered in alternate years) 1L, 1T
Major plays; critical approaches to theatre. *Prerequisite:* FRE171Y, 140Y.
- FRE261Y Practical French II** 3S
Similar to FRE161Y on a more advanced level. *Exclusion:* FRE271Y; not open to native speakers of French. *Prerequisite:* FRE161Y/171Y.
- FRE271Y Language Practice II** 3S, 1P
A course designed further to improve the student's competence in written and oral French. *Exclusion:* FRE261Y; not open to native speakers of French. *Prerequisite:* FRE171Y.

- FRE272Y The Structure of Modern French: An Introduction** 1L, 1T
The phonological, morphological and syntactical systems of modern French. *Prerequisite:* FRE171Y.
- FRE322Y The Literature of the Enlightenment** (Offered in alternate years) 1L, 1T
The revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. *Prerequisite:* FRE140Y and one 200-series FRE "Specialist" course.
- FRE354H Drama from 1900 to 1950** (Offered in alternate years) 1L, 1T
Major plays, stressing the evolution toward a more stylized, poetic and experimental form; critical approaches. *Prerequisite:* FRE140Y and one 200-series FRE "Specialist" course.
- FRE361Y Practical French III** 3L
Similar to FRE261Y on a more advanced level. *Exclusion:* FRE371Y. *Prerequisite:* FRE261Y/271Y.
- FRE364Y Prose Fiction from 1800 to 1900** (Offered in alternate years) 1L, 1T
The ways in which such writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such themes as ambition, alienation and class struggle. *Prerequisite:* FRE140Y and one 200-series FRE "Specialist" course.
- FRE366Y Prose Fiction from 1900 to 1950** (Offered in alternate years) 1L, 1T
The ways in which twentieth-century writers have refined traditional forms of the novel, experimented and innovated, while exploring the diverse spiritual, intellectual and psychological conflicts of the first half of this century. *Prerequisite:* FRE140Y and one 200-series FRE "Specialist" course.
- FRE371Y Language Practice III** 3S, 1P
Further work in written and spoken French, with emphasis on both literary and informal usage. *Prerequisite:* FRE271Y.
- FRE375Y Comparative Stylistics** 1L, 1T
A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation. *Prerequisite:* FRE271Y and one other 200-series FRE "Specialist" course.
- FRE423H Contemporary Theatre** (Offered in alternate years) 1L, 1T
Drama since 1950 with special reference to the *anti-theatre*. *Prerequisite:* FRE140Y and 3 200/300-series FRE "Specialist" courses.
- FRE424H Contemporary Novel** (Offered in alternate years) 1L, 1T
Prose fiction since 1950 with special reference to the *nouveau roman*. Innovative approaches to the problems of narration and to concepts of time, space and character. *Prerequisite:* FRE140Y and 3 200/300-series FRE "Specialist" courses.
- FRE475Y Practical Translation** 1L, 1T
English to French and French to English. Texts are drawn from literature, business, economics, politics, science, art and advertising. *Prerequisite:* FRE375Y and 3 other 200/300-series FRE "Specialist" courses.
- FRE490Y Senior Essay** TBA
A senior essay is an independent research project on either a literary or linguistic topic chosen by the student and supervised by an instructor. *Prerequisite:* Permission of the Department.
- FRE491H Independent Study** TBA
Individual study with a member of staff on a topic of common interest including readings, discussions and papers. *Prerequisite:* Permission of Department.

GERMAN

Faculty Advisor: Professor C. Saas

For more than the past two hundred years Germany, Austria, and German-speaking Switzerland have played increasingly important roles in European life, both as leaders in commerce and industry and as the homelands of outstanding musicians, philosophers, scientists, psychologists, and religious and political thinkers. Their scholars have excelled in such fields as Religious Studies, Mediaeval Studies, Philosophy, Literary Studies, Classics, Archaeology, History of Art and Music, Physics, Chemistry and Mathematics.

German writers are equally distinguished. Beginning with a vigorous medieval literature and continuing through Lessing, Goethe, and Heine to Kafka, Thomas Mann, and Brecht, German literature has treated the widest possible range of human problems: philosophical and psychological, moral and religious, social and economic. University courses in German offer a thorough study of the more important authors from the Middle Ages to modern times.

The Department also offers a variety of language practice courses on the intermediate and advanced levels, including grammar, translation, conversation, essay-writing, stylistics, and laboratory work. Two courses deal with the history and structure of the language. To consolidate language learning and improve oral fluency the Department co-operates with the German Government whenever possible in sponsoring flights to Germany and summer work for a limited number of undergraduates.

As one of the major languages in a shrinking world, German is valuable in itself as a means of communication. It is particularly useful in careers such as the foreign service, customs and immigration, business and commerce, civil service, interpretation and translation, librarianship, radio and television, music, tourism, and of course teaching. A knowledge of German is a virtual necessity for specialists in certain disciplines, such as Music, Fine Arts, Classics, Theology, and Philosophy. As a literature, German may be studied alone or in combination with other languages and literatures, with Linguistics, Philosophy, or History. The successful completion of a four-year programme, including seven approved courses in German, may entitle a student to do work in the Graduate Division of the Department.

The Department prefers that students come to the university with Grade 13 German: however, since not all high schools offer this programme, an Introductory Course in German is available for students with little or no previous knowledge of the language. Upon completion of this course GER(100Y or 101H) students enter the regular stream of study. In addition, courses are available at the beginning and intermediate level in Reading German (GER105Y or 205Y) for students in the departments or faculties requiring a knowledge of scholarly German. Students who desire information regarding German studies are advised to confer with Professor Saas (828-5289).

It is recommended that students who wish to specialize or co-specialize in German also take GLL190Y in First or Second year.

Please see Section 7 for details of Programme Requirement.

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| GER100Y | Introductory German | 3L 2P |
| | An intensive language course for students with no previous knowledge of German. Practice in comprehension, speaking, reading and writing. <i>Exclusion:</i> Grade 13 German, GER101H, 105Y. | |
| GER101H | Introductory German: Continuation | 3L, 2P |
| | An intensive language course for students who have studied some German, but who have not yet attained Grade 13 level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. <i>Exclusion:</i> Grade 13 German, GER100Y, GER105Y. | |
| GER105Y | Reading German I | 3P |
| | Training in reading scholarly German for students who have little or no previous knowledge of German. The Department reserves the right to place students in the appropriate course in the series GER105Y-205Y. <i>Exclusion:</i> Grade 13 German, GER100Y, 101H. | |

- GER110Y Language Practice I** 4P
Review of basic grammar, acquisition of basic vocabulary, practice in translation, composition and conversation. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310Y/311Y, 410Y. *Exclusion:* GER200Y. *Prerequisite:* Grade 13 German/GER100Y/101H. *Corequisite:* Students intending to specialize in German must take a first-year literature course as well.
- GER120Y German Literature of the Late 19th and the 20th Centuries** 3L
(Offered in alternate years)
An introduction to the study of German literature through works by such writers as Fontane, Hofmannsthal, Mann, Kafka, Rilke, Brecht and Dürrenmatt. *Prerequisite:* Grade 13 German/GER100Y/101H.
- GER130Y Modern German Literature: Language Practice** 2L, 2P
(Offered in alternate years)
For students who, in addition to an introduction to German literature, want to have further language training. Works by such writers as Kafka, Hesse, Mann and Brecht. A review of basic grammar, expansion of vocabulary, practice in translation and composition. *Exclusion:* GER200Y. *Prerequisite:* Grade 13 German/GER100Y/101H.
- GER200Y Intensive Intermediate German** 2L, 3P
Practice in comprehension, speaking, reading and writing, plus the study of selected literary texts. *Exclusion:* GER110Y/130Y/203Y. *Prerequisite:* GER100Y/101H.
- GER203Y Intermediate German** (Offered in alternate years) 3P
For students from GER100Y/101H, who do not plan to specialize in German. Language training with the study of some literary and cultural texts. This course does not count for specialization or co-specialization in German. *Exclusion:* GER110Y, 130Y, 200Y. *Prerequisite:* GER100Y/101H.
- GER210Y Language Practice II** 4P
German at the intermediate level: extension of basic vocabulary, specific problems of grammar, practice in translation, essay-writing, and conversation. Students taking this course and intending to specialize in German must take a second-year literature course as well. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310/311Y, 410Y. *Exclusion:* GER205Y. *Prerequisite:* GER110Y/120Y/130Y/200Y.
- GER220Y 19th-Century Literature from Romanticism to Realism** 3L
Continues first-year work and prepares for studies in upper-year literature, with emphasis on such authors as Kleist, Grillparzer, Heine, Büchner, Keller and Fontane. *Prerequisite:* GER120Y/130Y/200Y.
- GER230Y 19th-Century Literature (Realism and Related Trends); Language Practice** 2L, 2P
(Offered in alternate years)
Study of works selected from Biedermeier, Young Germany, and Realism. (Two hours per week). Language work of the First Year is continued (2 hours per week). *Prerequisite:* GER120Y/130Y/200Y.
- GER251Y The Development of German Cinema** 2S, 2T
German cinema from its beginnings as an art form to its current renaissance. Includes films by such directors as Murnau, Herzog, and Fassbinder. Knowledge of German not required; previous film studies experience not required.
- GER271Y German Civilization** (Offered in alternate years) 3L
A comprehensive study of German culture through the ages. Special consideration will be given to art history, music, and philosophy within their historical context. A description and analysis of present-day Germany will be included.
No knowledge of German is required. This course does not count toward specialization or co-specialization in German. Available to First-Year students by permission of the instructor.

- GER310Y **Language Practice III** 3S
Study of idioms, translation, essay writing, problems of grammar. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310Y/311Y, 410Y. *Exclusion:* GER311Y. *Prerequisite:* GER210Y/230Y.
- GER321H **Literature of the Enlightenment** (Offered in alternate years) 3L
A study of selected works of the *Aufklärung* with emphasis on Lessing as its foremost representative. *Prerequisite:* GER220Y/230Y.
- GER322H **Literature of the Storm and Stress** (Offered in alternate years) 3L
A study of some of the early works of Goethe and Schiller and their contemporaries. *Prerequisite:* GER220Y/230Y.
- GER324Y **Prose Fiction from Goethe to Thomas Mann** (Offered in alternate years) 3L
The development of the German novel and Novella during their most important phase. The relation of each work to its social and cultural context; questions of form and technique. *Prerequisite:* GER220Y/230Y.
- GER325Y **Romanticism** (Offered in alternate years) 3L
A study of German Romantic literature, including works by Novalis, Brentano, Kleist, Eichendorff, and Hölderlin, as well as basic theoretical texts. *Prerequisite:* GER220Y/230Y.
- GER326H **Introduction to Middle High German** (Offered in alternate years) 3L
An introduction to the language, literature and civilization of Mediaeval Germany through the reading of such authors as Hartmann von Aue and Walther von der Vogelweide. *Prerequisite:* GER220Y/230Y.
- GER327H **Mediaeval German Literature** (Offered in alternate years) 3L
Literary analysis of works such as Gottfried's *Tristan*, the *Nibelungenlied*, and Middle High German poetry. *Prerequisite:* GER326H.
- GER410Y **Language Practice IV** 3P
Selected problems in grammar, translation, and essay writing at the advanced level. The Department reserves the right to place students in the appropriate course in the series GER110Y, 210Y, 310Y/311Y, 410Y. *Prerequisite:* GER310Y.
- GER420Y **Modern German Literature: 1885-1945** 3L
A study of such authors as Nietzsche, Hauptmann, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Kaiser and Brecht. *Prerequisite:* GER220Y/230Y.
- GER421Y **German Drama from Büchner to the Present: Theory and Practice** 3L
(Offered in alternate years)
The development of modern German drama through the study of such playwrights as Büchner, Hebbel, Hauptmann, Kaiser, Brecht, Dürrenmatt, Handke and Fassbinder. *Exclusion:* GER356Y. *Prerequisite:* GER220Y/230Y.
- GER422Y **Contemporary German Literature: 1945 to the Present** (Offered in alternate years) 3L
A study of major authors since the Second World War, including Böll, Celan, Dürrenmatt, Frisch and Grass. *Prerequisite:* GER220Y/230Y.
- GER425Y **Goethe-Schiller-Hölderlin** (Offered in alternate years) 3L
Works to be studied include *Faust* I and II, Schiller's later plays and Hölderlin's poetry. *Prerequisite:* GER220Y/230Y.

GEOGRAPHY

Faculty Advisors: Professors G.H.K. Gad, T.F. McIlwraith, D.S. Munro

Geography seeks to understand the processes which have brought about current landscapes and current patterns of land-use. Physical geography draws on the earth sciences to understand processes in the biosphere, lithosphere and hydrosphere that lead to distinctive variations or similarities from place to place in the physical environment. Human geography, more concerned with people's use of the earth, draws on the humanities and social sciences in order to understand the creation and organization of distinctive regions, economies and landscapes. A third focus of geography, that of environmental management, seeks to combine the traditions of human and physical geography; the physical basis of environmental deterioration and policy alternatives for contending with such deterioration are of central concern. Together, these three approaches offer a deliberately broad range of topics, and students are encouraged to explore the breadth of geography, as well as develop an emphasis in one of its subfields (e.g. urban geography within human geography).

At Erindale, the geography curriculum places considerable stress on experiential learning. Field studies are an important component of the programmes at all levels and in all areas of the curriculum. They complement lectures, provide material for workshops, develop skills in geographical methods, encourage student involvement in basic enquiry, and build student-staff cooperation. Field work often starts on the College grounds, takes place in the metropolitan area and further afield in rural Ontario, and has taken students and staff to Vancouver, Montreal, the deserts of Utah and medieval cities of Europe.

In a world of fluctuating demand for specialists of any kind, the integrative qualities of a geographical education can serve as a useful basis for a wide variety of research, clerical and managerial positions that might be open to candidates with breadth, depth and insight. In the past geography students have found employment in a wide variety of activities, such as planners with municipalities and provincial government departments, environmental analysts with consulting firms, or transportation and location analysts in a wide range of industry and commerce. A significant number of geography students have been successful in gaining admission to master's programmes in such fields as urban and environmental planning, library science, business administration or undergraduate programmes in law and architecture.

Geography offers a three year (15 course) Major and a four year (20 course) Specialist degree (for the detailed regulations see section 7 of this calendar). Within the Major or Specialist programmes students can concentrate in sub-fields of Geography, such as cultural-historical geography, the geography of cities, environmental management or the physical environment. They may also wish to gain breadth by combining study in several sub-fields.

There are close links with other disciplines and interdisciplinary programmes. Geography students often combine their geography courses with work in Approved Areas of Study such as Canadian Studies, Urban Studies, Population and Society or Earth Resources (see pp.74-80 of the Calendar for regulations).

Students in other disciplines should find many courses within Geography that complement their interests and expertise. Students with programmes in fields from literature to geology, from chemistry to history, or from fine art to economics may find in geography new ways of combining and developing their knowledge. To allow for this rich opportunity to associate many fields with Geography, courses in the Erindale programme have few prerequisites.

Students should consult the following faculty advisors for programme planning: Professor Gad for urban geography, Professor McIlwraith for historical geography, Professor Munro for environmental analysis and environmental management. A Geography Handbook is also available for detailed description of programmes.

Please see Section 7 for details of Programme Requirement.

GGR100Y Introduction to Physical Geography

2L, 2P

World climates, vegetation, hydrology, soils and the physical landscape. Interactions between different sectors of the physical environment are described; the role of man in the physical geographic system is illustrated.

- JBG130Y Man and Environment** 2L, 2T
Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. Problems of current environmental concern - land use, material and energy resources, pollution are considered and illustrated by case studies from different parts of the world. Given by the Departments of Biology and Geography. *Exclusion:* GGR173Y/101Y, BIO130Y.
- GGR131Y Introduction to Human Geography** 2L, 1T
Variations in economic and social organization in pre-industrial and technologically-advanced societies: man's role in landscape change, as expressed through the location of agriculture, industry, and cities.
- GGR201H Geomorphology: The Science of Landforms (Formerly GGR200H)** 2L, 1P
This course will discuss glacial processes and landforms with special reference to Ontario. Other topics including weathering, slopes, and fluvial geomorphology will also be introduced. Field trips required. *Prerequisite:* 4 1/2 or more course credits. *Recommended Preparation:* GGR100Y.
- GGR202H Statistics** 2L, 1T
(I) Acquaints beginning students with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. *Exclusion:* Any concurrent or previous Statistics course.
- GGR205H Soils** 2L, 1P
The physical and chemical properties of soils; processes of soil formation; factors of soil formation; systems of soil classification; pedological aspects of environmental management. *Prerequisite:* 4 1/2 or more course credits. *Recommended preparation:* Grade 12 or Grade 13 CHEM, GGR100Y.
- GGR206H Introduction to Hydrology (Offered in alternate years)** 2L, 3P
A basic grounding in the theoretical and practical aspects of surface and groundwater hydrology, together with the consideration of problems in water resource development. Measurement of streamflow, hydrograph analysis, physics of groundwater flow, snowmelt-runoff relationships, and land use hydrology. *Prerequisite:* JBG130Y (formerly GGR101Y/BIO130Y) or GGR100Y.
- GGR207H Aerial Photo Interpretation** 2L, 1P
The aim of the course is to permit students to develop an aerial perspective. Considerable attention is given to presentation of aerial photographic information in mapped form. Students are reminded that GGR202H, GGR212H and GGR207H are a group of related courses and are required for the specialist degree in geography.
- GGR212H Application of Statistics** 2L, 1T
(I) A continuation of GGR202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. *Exclusion:* STA212H, 222Y(G), 242Y, 252Y(G), PSY201H, ECO220Y, BIO361H. *Prerequisite:* GGR202H.
- GGR214H Climatology** 2L, 2P
Meteorological basis of climate; general circulation of the atmosphere and influence on climatic change; interaction between man and climate. Instruments and measurement techniques are examined in outdoor laboratory sessions. *Prerequisite:* 4 1/2 or more course credits. Grade 13 MAT, GGR100Y/JBG130Y (formerly GGR101Y/BIO130Y)
- GGR220Y Regional Economic Models** 2L, 1T
An introduction to location, structure and interaction. Use of location theory in explaining industrial and agricultural patterns, transport networks and flow systems, regional economic development.

- GGR233Y Energy, Natural Resource and Environmental Management** 2L, 1T
(Offered in alternate years)
Concepts in the management and decision-making process which shape the environment. Environmental quality, impact of technology on society and nature, and evaluation of alternatives. The course is future-oriented, concerned with public policy, and adopts a world-view from a Canadian standpoint. *Prerequisite:* Any 4½ or more course credits. *Recommended preparation:* GGR101Y/JBG130Y.
- GGR245Y Urban Canada** 2L, 1T
(I) An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada.
- GGR250Y Geographical Models of Man** (Offered in alternate years) 2L, 1T
Various models of the man-environment interface, within a theoretical context. Derivative concepts from economic, sociological and psychological theory are the main sources for such models. *Prerequisite:* Any five full-course credits.
- GGR253Y Cultural Geography** 2L, 1T
Social change and the resultant imprint on both urban and rural landscapes in pre-industrial and modern societies. Special emphasis on the Ontario cultural landscape. *Prerequisite:* Any five full course credits.
- GGR255H Perspectives On Current Population Issues** 2L, 1T
Current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. *Prerequisite:* Any five full course credits.
- GGR276H Introduction to Data Processing in Geography** 2L
Practical instruction in the use of computers to solve geographical problems. An introduction to programming in a general purpose language (PL/I) and a special purpose language (SPSS-Statistical Package for the Social Sciences). *Exclusion:* CSC139H. *Prerequisite or Corequisite:* GGR202H and 212H, and two other courses in Geography.
- GGR280H Cartography** 1L, 2P
The use of maps and techniques of map making; topics include map interpretation, elements of cartographic design and mapping statistics. The aim of the course is to permit students to develop an areal or spatial perspective which they may bring to their studies in geography.
- GGR300H Field Studies** 3P
Investigation of physical and socio-economic phenomena out-of-doors. Field observations and samples collected during a week-long field camp are analysed and the findings are submitted in a series of reports. Each student must pay the cost of transportation and accommodation. *Prerequisite:* Any 9 or more course credits.
- GGR301H Environmental Geomorphology** (Formerly GGR320Y) (Offered in alternate years) 2L, 2P
Geomorphological aspects of environmental management. Topics will include: erosion by water; wind erosion and desertification; sedimentation; landsliding; floodplains and flooding; material resources; permafrost; land systems and geomorphological mapping. *Recommended preparation:* Any two of GGR201H, 205H, 206H and 214H.
- GGR302H Fluvial Geomorphology** (Formerly GGR320Y) (Offered in alternate years) 2L, 2P
Concepts on fluvial systems; slope processes including mass wasting; fluvial sediment entrainment and transport; sediment yield. Field and laboratory work required. *Prerequisite:* GGR201H. *Recommended preparation:* GGR206H.
- GGR304H Bioclimatology** (Offered in alternate years) 2L, 1P
Elements of microclimatology as they apply to the environment of plants and animals. Energy exchange within bioclimatic systems will be emphasized. *Prerequisite:* GGR206H/214H.

- GGR305H Biogeography** (Offered in alternate years) 2L, 1T
The relationship between plants, animals and their changing environments, and the role taken of man as an agent of change. Orientation toward data collection and analysis involves the student in environmental field work. *Prerequisite:* One course in Geography or Biology.
- GGR324H Geography of Urban and Regional Transportation** 2L, 1T
Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present: geographical aspects of contemporary transportation problems. *Prerequisite:* GGR202H.
- GGR330Y Rural Land Use** (Offered in alternate years) 2L, 1P
Agricultural origins, agricultural ecology and the economic development of agricultural patterns; the concept of agricultural region and distribution of agricultural types. *Prerequisite:* One GGR course.
- GGR332H Development and Environment** (Offered in alternate years) 2L, 1/2 T
Poverty and hunger in low income countries have become even more complex with the emergent concerns about resource "scarcities" and ecological damage. The aim of the course is to bring together topics in these three interacting concerns. *Recommended preparation:* GGR233Y.
- GGR333H Geography of Energy in Canada** 2L, 1T
Regional supply/demand pattern; production and delivery systems; available supplies; end uses and efficiencies; major proposed energy projects. *Recommended preparation:* GGR220Y/233Y/361Y.
- GGR334H Water Resources Management** (Offered in alternate years) 2L, 1/2 T
Canadian problems in water resource management; a selection of topics related to policy will be covered, e.g. forecasting the demand for water, inter-basin and inter-national water transfers, industrial and urban water supply and wastewater management, flood/drought as natural hazards, the Great Lakes, water supply in developing countries. *Recommended preparation:* GGR233Y.
- JGS340Y Concepts, Methods and Values in Urban Studies** 1L, 3P
Designed for students concentrating in urban studies irrespective of major disciplinary area. A survey of a variety of types of urban study from the social science perspective. Linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. Given by the Departments of Geography and Sociology. *Prerequisite:* SOC205Y/GGR245Y and SOC201Y/GGR202H.
- GGR344Y Geography of the Soviet Union** 2L, 1T
A survey of the geography of the Soviet Union, through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations. *Prerequisite:* Two GGR courses.
- GGR346H The Urban Planning Process in Canada** 2L, 1T
Introduction to planning as a conscious collective activity which can or actually does shape the city. Reflection upon the nature of urban planning, rather than discussion of particular urban development issues is emphasized. Major themes: the legal framework of planning in Ontario, outline of planning history, current issues in planning theory. The course includes a one week-long internship in a planning office. *Prerequisite:* GGR245Y/SOC205Y.
- GGR349Y Workshop in Advanced Urban Geography** (Offered in alternate years) 1L, 2P
A survey of alternative methods of data collection and analysis in urban studies. Application of methods to a limited range of different topics which are to be selected according to current interests of students and staff. Apart from lectures, discussion groups and research projects, the course involves a field trip to another large city. *Prerequisite:* GGR245Y.

- GGR351Y Landscape, Economy and Society in the New World 1500-1900** 2L, 1T
The historical geography of northeastern North America, west to the Great Lakes and Mississippi Valley, south to the Chesapeake region. Evaluation and utilization of the land by successive generations of observers and users is of central interest in this course. *Prerequisite:* Any eight full course equivalents.
- GGR352H A Theory of Regional Design** 2L, 1T
The principles of regional design, with an emphasis on the decision-making processes at different levels and in different sectors of government. Use will be made of an interactive simulation model for project appraisal and budget formulation. A general background in problems of urban and regional systems, economic development and data processing is recommended.
- GGR353H Current Canadian Problems in Their Historical Setting** 2L, 1T
(Offered in alternate years)
The historical roots of topical Canadian questions. The geographical elements of such subjects as resource exploitation, farm consolidation, regional disparity, ethnicity, rural-urban inter-relations, international commerce. *Prerequisite:* Any eight full course credits
Recommended preparation: GGR245Y/351Y/361Y.
- GGR354H Applications of Regional Design** 2L, 1T
Empirical problems of regional design. Use of an interactive simulation model for regional design and comparison of the output of this model with case studies from Canada and from a selection of Third World Countries. A general background in problems of urban and regional systems, economic development and data processing is recommended. *Recommended preparation:* GGR352H.
- GGR361Y Canadian Contemporary Regional Studies** 2L, 1T
A study of the spatial relations and distribution patterns of the physical phenomena, present and potential resources, population, and regional economic development. *Prerequisite:* Any two GGR courses.
- GGR373H Theory of Remote Sensing** 2L
Principles, instruments, and methods of remote data collection and analysis. Treatment of fundamentals of electromagnetic theory. Discussion of lenses, (materials, manufacture and limitations). Discussion of film including physical and chemical properties. Coverage of remote sensing equipment, including cameras (visible and near IR radiation), radiometers (IR and microwave) scanners (Multispectral), and active microwave (RADAR system). *Prerequisite:* GGR207H, 280H (except Survey Science students). PHY135Y/140Y and MAT135Y recommended.
- GGR374H Water Quality** 2L, 1P
An introduction to the physical and chemical characteristics of natural water with emphasis on their importance to industrial and domestic supplies. Topics included are: measurement and analysis of dissolved and suspended constituents, chemical equilibrium in dilute aqueous solutions, and spatial variability of water quality with emphasis on Southern Ontario. *Prerequisite:* Grade 13 Chemistry or CHM118Y/150Y, GGR206H.
- GGR379H Advanced Field Methods in Physical Geography**
(Offered in alternate years)
Structured around field work, the course will include at least one major field trip. Students will be responsible for reading selected articles relating to the study areas prior to visiting the field. Projects will involve mapping of physical features (i.e., geologic structures, vegetation, soil, water) on a preliminary basis from aerial photographs in the laboratory and subsequently in the field. The intention is to conduct the major field trip outside Southern Ontario to provide a contrasting environment for the students (who, it is assumed already have some familiarity with the local area). *Prerequisite:* Any three courses drawn from one or more of the following: Physical Geography, Geology and Biology.

- GGR381H Research Design** 2P
Designed to give students experience in the definition of and proper approach to a research study. Sampling schemes, analytical procedures, and thesis or report formats are also covered. Students prepare a paper on the research problem which they would intend to pursue in fourth year. In addition to the statement of purpose, the paper embodies a thorough review of pertinent literature and where appropriate, data from interviews with experts in the field, personal observations and/or preliminary sample analyses. *Prerequisite:* Any 10 or more course credits.
- GGR383H Applications of Remote Sensing (Formerly GGR373Y)** 2L
Applications of remote sensing techniques to problems which students have already encountered at the 300-level in geography, biology, earth sciences and related fields. In addition to readings in the textbook and in contemporary published articles, students will provide written précis and oral reports. Laboratory exercises will emphasize basic techniques, and applications of each of the sensors. *Prerequisite:* GGR207H, 280H (except Survey Science students). PHY118Y/140Y and MAT132Y recommended.
- GGR441H Advanced Topics in Urban Studies** 2P
An advanced seminar dealing with topics in urban studies, to be selected according to staff and student interests. Topics include images of cities and the spirit of place, the city in history, social theory and the city. *Prerequisite:* Fifteen or more full course credits.
- GGR491Y B.A./B.Sc. Thesis**
A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee. *Prerequisite:* GGR381H; six GGR courses; fifteen or more full course credits.

GREEK AND LATIN LITERATURE IN TRANSLATION

(See Classics)

- GLL190Y Greek and Roman Religion and Mythology** 2L, 1T
The Myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course will include discussion of different schools of interpretation of myth, and comparison of Greek and Roman myths to those of other cultures, particularly of the Near East and Northern Europe. *Exclusion:* GLL191H(G), 205(G).
- GLL202H The Ancient Novel (Offered in alternate years)** 2S
(I) The human and social climate in which prose fiction arose; the Greek romances of love and adventure (Heliodorus, Longus, Xenophon), and the more ironical and socially conscious works of the Roman writers, Petronius, *The Satyricon* and Apuleius, *The Golden Ass*; parallels with modern literature.
- GLL204H Roman Satire (Offered in alternate years)** 2S
(I) A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman Literature and offers the modern reader a vivid and witty picture of the people and society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire.
- GLL300Y Greek Tragedy and Comedy (Formerly GLL200Y)** 2S
(I) Greek drama from the origins of tragedy in the sixth century to New Comedy, with close study of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, and Menander, and attention to Aristotle's *Poetics*.

GREEK

(See Classics)

- GRK100Y **Introductory Greek with Selected Readings** (Offered in alternate years) 4S
Introduces beginners to the ancient Greek language and prepares them for the reading of Greek literature.
- GRK210H **Socrates On Trial** (Offered in alternate years) 3S
Plato, *Apology of Socrates*. Further study of the language. *Prerequisite*: Grade 13 Greek/GRK100Y.
- GRK213H **The Wanderings of Odysseus** (Offered in alternate years) 3S
Homer, *Odyssey*, 6, 9, 11. Further study of the language. *Prerequisite*: Grade 13 Greek/GRK100Y.

GREEK AND ROMAN HISTORY

(See Classics)

- GRH100Y **Greek and Roman Civilization** 2L, 1T
Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman Empire. Its place in world history. *Exclusion*: GRH200Y/202Y if taken in the same year of study.
- GRH200Y **Greek History to the Death of Alexander** (Offered in alternate years) 2L, 1T
(I) Political, economic and intellectual progress and achievement in the Greek classical age. *Exclusion*: GRH100Y if taken in the same year of study.
- GRH202Y **The Roman Empire** (Formerly GRH300Y) (Offered in alternate years) 2L, 1T
(I) Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine. *Exclusion*: GRH100Y if taken in the same year.
- GRH216Y **Alexander the Great and the Hellenistic Age** (Offered in alternate years) 2S
(I) The achievement of Alexander and its importance for subsequent Mediterranean history. The creation of Hellenistic states and their historical significance.
- GRH218Y **Religion in the Roman Empire** (Offered in alternate years) 2S
(I) A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity - conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion.
- GRH232H **Ancient Astrology and Astronomy** (Offered in alternate years) 2S
(I) Greek and Roman views of the universe; the origin and development of scientific astronomy, astrology, and star worship.
- GRH234H **Ancient Science and Technology** 3L
A study of selected areas in the science and technology of ancient Greece and Rome.
- GRH311Y **Caesar and Augustus** (Offered in alternate years)
Their work and their contribution, as well as the role of their contemporaries, Pompey, Crassus, Cicero, Antony, and Brutus. Based primarily on original sources (in translation), such as the writings of Caesar, the correspondence of Cicero, and the political testament of Augustus. *Exclusion*: HIS486Y.

HISTORY

Faculty Advisor: Professor C. La Vigna

History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one.

We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service as a researcher, archivist or policy analyst.

The history programme at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. Introductory 100 and 200 level courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings.

Students wishing to receive certification in History should register annually, beginning in their second year, with the History Secretary, (Room 236, North Building), to ensure their progress through the programme.

Please see Section 7 for details of Programme Requirement.

HIS100Y	Modern Europe, 1789-1970 Europe from the French Revolution to the 1960's. Political, economic, social and cultural aspects will be covered.	2L, 1T
HIS107Y	The Emergence of the Modern World An introduction to the problems and methods of social and political history through comparative study of modern Western and "Third World" societies. Major themes will include the commercial and industrial revolutions, peasant societies and agrarian change, the rise of the nation-state, popular and revolutionary movements, and colonialism and resistance to it. <i>Exclusion:</i> HIS101Y.	2L, 1T
HIS204Y (I)	History of Italy (Offered in alternate years) A general survey of the history of Italy: political, social, economic and cultural.	2L, 1T
HIS210H	Sexual Revolution in the Modern World (Offered in alternate years) An examination of changing trends in marriage, family composition, and sexual expression from the 18th century to the present. These will be studied in relation to industrialization, the emergence of centralized nation-states, and other principal economic, political, and cultural developments of the modern era, focusing mainly on Europe.	2L, 1T
HIS220Y (I)	The Shape of Medieval Society Europe from the late Roman period to the fifteenth century. A chronological survey of the various cultures that constituted medieval society and the actions and institutions that determined its particular shape.	2L, 1T
HIS230Y (I)	Politics and Social Change in England, 1530-1800 (Offered in alternate years) An introduction to the development of government and society in England from the sixteenth to the eighteenth century. Attention will be given to such events as the English Reformation, the Civil War, the Glorious Revolution, the beginnings of industrialization, and the challenge of the American and French Revolutions. <i>Exclusion:</i> HIS234Y.	2L, 1T

- HIS231Y History of Great Britain, 1800-Present** (Offered in alternate years) 2L, 1T
(I) The major themes of British history from the early 19th century--the effects of industrial society, the development of parliamentary democracy, the emergence of the welfare state, foreign and Empire relations, and religious, cultural and intellectual change. *Exclusion:* HIS234Y.
- HIS243H Early Modern Europe, 1450-1648** 2L, 1T
(I) The political, social, economic, and intellectual history of continental Europe. The Renaissance, the Reformation, Counter-reformation, growth of the territorial monarchies, and the religious wars. *Exclusion:* HIS240Y.
- HIS244H Early Modern Europe, 1648-1815** 2L, 1T
(I) The political, social, economic, and intellectual history of continental Europe. Development of royal absolutism, social change and the crisis of the ancien regime, the Enlightenment, the French Revolution, and the Napoleonic era. *Exclusion:* HIS240Y.
- HIS248Y The Industrial Revolution** 2L, 1T
(I) The economic, technological and social transformation of European society in the eighteenth and nineteenth centuries. Why did these transformations occur when they did, and why did certain nations become industrial more rapidly and completely than others? The effects of industrial change on social structures and political organization, as well as the rise of new social classes and the interaction among them.
- HIS250Y Russia Since the 9th Century** (Offered in alternate years) 2L, 1T
(I) A thematic approach concentrating on the modern period (post-1700). Students are encouraged to follow their own interests through independent reading and special projects.
- HIS262Y History of Canada** 2L, 1T
(I) An introduction to the social, political and economic history of Canada. Particular attention to regional diversity, the development of political movements, and the implications of economic development based on staples.
- HIS271Y American History Since 1607** 2L, 1T
(I) A survey of significant developments in American history (e.g. the American colonies, the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history.
- HIS290Y Introduction to Latin American History** (Offered in alternate years) 2L, 1T
(I) Presentation of the past of Latin America in relation to its present, through investigation of selected themes: colonialism, imperialism and dependence; the succession and interaction of tribal, feudal and capitalist forms of society; racial and cultural mixture; democracy and dictatorship; nationalism, etc.
- HIS300Y War and the Military in American Life** 1L, 1T
How Americans have approached, experienced and been affected by war, and the development and sociology of the military establishment, beginning with the nature of Early Modern warfare and its application in Anglo-America through United States involvement in Vietnam and the experiment with a volunteer army.
- HIS309H The Atlantic Provinces, 1500-Present** (Offered in alternate years) 1L, 1T
An historical introduction to an often neglected region of Canada. Emphasis on the chronic economic underdevelopment of this region, the causes of dissatisfaction in the hinterland, and the development of a regional identity. *Prerequisite:* HIS262Y.
- HIS313Y Canadian Labour and the Left** (Offered in alternate years) 2S
A study of the growth of the Canadian labour movement since Confederation and of the related development of Canadian radicalism. Social, economic and regional themes will be incorporated. *Prerequisite:* HIS262Y/POL100Y.

- HIS314Y French Canada Since the Conquest** (Offered in alternate years) 2S
The development of the French-Canadian community in Canada, French-Canadian nationalism, the political and economic development of Quebec, and the cultural evolution of French-Canadian society both within and outside of Quebec. *Prerequisite:* HIS262Y.
- HIS319Y Social Movements in 20th Century Canada** (Offered in alternate years) 1L, 1T
An examination of social movements and political protest in Canada from the 1890's to the 1970's. Particular attention will be given to the growth and impact of the social gospel, temperance and prohibition, trade unions, socialist parties, women's movements, regional protest and French Canadian nationalism.
- HIS321Y Canadian Business History** 2S
A study of major developments in the history of business in Canada and of relationships between business and economic development, government policy and social change since Confederation.
- HIS323H Canadian Political Parties** 2S
A study of the Canadian national and provincial party systems with an emphasis on techniques of political management in a federal system.
- HIS327Y War and Revolution in 19th Century Europe** (Offered in alternate years) 2S
The impact of war and revolution on European history from Napoleon to the First World War. Major topics will include the Napoleonic Empire and the Vienna Settlement, the French Revolution of 1830, the European Revolutions of 1848, the Crimean War, the wars of Italian and German unification, the Russo-Turkish War, war and colonial expansion, the Russo-Japanese War and the Russian Revolution of 1905, the Balkan Wars, and the outbreak of war in 1914. *Prerequisite:* P.I.
- HIS329Y The Russian Revolutionary Movement** (Offered in alternate years) 2S
The development of revolutionary ideologies, tactics, and organizations from the Decembrist movement (1825) to the consolidation of the Bolshevik Revolution. Concentrates on the writings of individual leaders (Herzen, Bakunin, Lenin) and their different strategies and goals in the struggle against tsarism. *Prerequisite:* P.I.
- HIS330Y Indians and Indian Policies in American History** 2S
A study of the relationships between Indian tribes and the government and larger society of the United States. Major themes will include pre-contact society and culture, the origins of race consciousness, Indian removal, movements for cultural renewal, the concentration, reservation and allotment policies, the Indian New Deal, and the Red Power movement.
- HIS331H Augustine and *The City of God*** (Offered in alternate years) 2S
A study of this important figure who bridges the gap between the Roman Empire and the Middle Ages, and, in particular, of the intellectual, social and political implications of his work *The City of God*.
- HIS334H Multinational Corporations and International Relations** 1L, 1T
A study of the emergence of multinational corporations and their impact on international relations since the late 19th century. Major topics will include: the methods and pace of expansion of multinational enterprise; the relationships of multinationals with their parent governments, with other developed countries and with under-developed societies; multinational corporations and war.
- HIS337Y British History, 1815-1914** (Offered in alternate years) 2S
The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy and religion, cultural and intellectual change, foreign relations, constitutional development and political history. *Prerequisite:* P.I.
- HIS338Y From Empire to Welfare State, 1906-Present** 1L, 1T
A topical analysis of political, economic and social issues in Modern British History. Themes include the decline of the Liberal Party, the impact of two world wars, the making of the welfare state, Empire developments, post-war Conservative and Labour Britain.

- HIS341Y Italy Since 1789** (Offered in alternate years) 2S
A study of the problems surrounding the unification of Italy and the unified state with emphasis upon social questions. The period covered will be approximately 1800-1945. *Prerequisite:* P.I.
- HIS343Y France and Germany 1848-1945** 2S
A comparative study of the development of France and Germany from the revolutions of 1848 to the end of the Second World War. Emphasis will be on the interaction of economic, social and political developments - including the diplomatic relations between them but students will be free to pursue topics in intellectual and ideological history. *Prerequisite:* P.I.
- HIS346Y French Society and Culture in the Eighteenth Century** 2S
The purpose of this course is to provide students with a better understanding of the Old Regime from the death of Louis XIV to the Revolution. Among themes to be considered are the Enlightenment and its non-elite impact, eighteenth century utopias, urban growth, manufacturing, forms of political opposition to the absolute monarchy, applied arts, popular culture, the nobility, dechristianization, the demographic surge and its consequences. *Prerequisite:* HIS240Y.
- HIS347H Republican Portugal, 1910-the present** 2S
A thematic course giving an overview of Portuguese development from the fall of the monarchy to the 1974 "Revolution of Flowers". Topics will include the origins of Republicanism, Salazar and Portuguese fascism, the role of the Church, the Communist Party and the Left, the Armed Forces Movement and the events of 1974-75, and the changing nature of Portuguese popular culture. *Recommended preparation:* Any course in modern or early modern European history.
- HIS349Y Renaissance and Baroque France, 1500-1715** 2S
Political, social, economic, and cultural history of France. Stress will be placed on modern historiographical trends. *Recommended preparation:* HIS240Y.
- HIS352Y History of War to 1815** 1L, 1T
A survey of war as understood and practiced by ancient, medieval and early modern societies.
- HIS353Y International Relations, 1870-1945** 2S
The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the First World War, the Versailles settlement, the inter-war "twenty year crisis" through the Second World War. The economic and social framework will be examined as well as political conflicts. *Prerequisite:* P.I.
- HIS355Y Totalitarianism** (Offered in alternate years) 2S
An examination of controversial interpretations of this period by some of Europe's leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements - Fascism, Nazism, and Stalinist Communism. *Prerequisite:* P.I.
- HIS356Y Social History of Russia from the Rise of Serfdom to the Present** 2S
Emphasizes the condition of the common man as affected by changing political and economic circumstances. Among the topics included are: the serf economy, the state as agent of social change, the causes and consequences of emancipation, industrial growth and modernization (before and after 1917), and the achievement and prospects of Soviet society. *Prerequisite:* P.I.
- HIS357Y The Renaissance** 2L, 1T
A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe.

- HIS359Y The History of Women in Canada** (Offered in alternate years) 2S
The economic, political and social role of Canadian women, the beliefs underlying relations between the sexes and the changing views of women toward their situation. *Prerequisite: P.I. Exclusion: HIS330S (1974-75).*
- HIS365H Ontario** 2S
The study of the political, social and economic development of Ontario with special emphasis on the period from Confederation to the present. *Recommended preparation: HIS262Y.*
- HIS367H Canadian-American Relations** 2S
This course will deal with political, economic and cultural relations between Canada and the United States since the American Revolution. Particular emphasis will be given to American economic and cultural influences upon Canada. *Exclusion: HIS367Y Canadian-American Relations.*
- HIS368H Western Canada** 2S
A political and social history of Canada's four western provinces. *Recommended preparation: HIS262Y. Exclusion: HIS368Y.*
- HIS372Y The United States in the Twentieth Century** 1L, 1T
A topical approach to the twentieth century designed to familiarize the student with important political, social and economic developments; for example, some topics considered will include the behaviour of the United States in the international arena, changing sexual roles and the dynamics of the family, the growth of economic and political corporatism, the ideology of American individualism, and militarism in postwar society.
- HIS374Y The Medieval Tradition** (Offered in alternate years) 1L, 1T
A cultural and intellectual history of the high Middle Ages. This course examines the classic expression of medieval culture from the literature of Dante and Chaucer to the theology of Abelard and Aquinas and the art of Giotto and the gothic cathedral. The purpose is to acquaint students with the modes of thought and feeling that characterized the medieval synthesis.
- HIS376Y The United States Between the Wars, 1918-1941** (Offered in alternate years) 1L, 1T
The study of economic, political, cultural and diplomatic developments associated with the emergence of "modern America." Major topics will include: the strengths and weaknesses of a consumer and corporate society; the transition from Republican to Democratic Party dominance; youth culture and protest culture; and the expansion of economic and political activity in the international arena. *Recommended preparation: HIS271Y or 372Y.*
- HIS377Y Topics in Twentieth Century American Diplomacy** (Offered in alternate years) 1L, 1T
An examination of United States behaviour on the international scene since the 1890s. Economic, political and ideological factors involved in the growth of the American empire, World War I, World War II and the Cold War will be studied.
- HIS378Y Ethnicity in American History** (Offered in alternate years) 2S
The seminar will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and problems of assimilation and acculturation. Black history and Indian-white relations will also be discussed, although the focus will be on non-Anglo-Saxon immigrants. *Prerequisite: P.I.*
- HIS383Y Society and Thought in Early America** (Offered in alternate years) 2L, 1T
A study of the social, cultural and intellectual life and development of the American colonies and the new nation, from the sixteenth century European background through the War of 1812. Major topics will include the nature of pre-industrial society, Puritanism, slavery and the Southern plantation system, the colonial family and the role of women, education, the Enlightenment, the Great Awakening, the American Revolution, and the growth of nationalism.

- HIS387Y **The Ancien Regime, 1716-1790** (Offered in alternate years) 2S
A topical analysis of the political and social structure and intellectual and cultural currents of eighteenth century Europe, with particular emphasis on the factors that led to the revolutionary upheaval of 1789-1815. *Prerequisite:* HIS240Y.
- HIS389Y **Social Revolutions in Latin America** (Offered in alternate years) 2S
A course focusing on politics and revolutionary movements in modern Latin America and related areas (e.g., southern Europe); emphasis will be placed on three or four particular countries, to be studied on a comparative basis. The course will also attempt to introduce possible approaches to history as a social science. *Prerequisite:* P.I.
- HIS391H **Mexico: Independence to Revolution, 1810-1960** (Offered in alternate years) 2S
A seminar considering the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. *Prerequisite:* P.I.
- HIS392Y **Canada and War** (Offered in alternate years) 2L
A topical examination of the Canadian experience of war and military preparedness including problems of political-military relations, conscription, aid to the civil power and militarism. *Recommended preparation:* HIS262Y.
- HIS397H **Nationalism in Canada** (Offered in alternate years) 2S
A topical study of nationalism in Canada, from Canada First to the Quebec independence movements. *Recommended preparation:* HIS262Y.
- HIS399Y **The Era of the French Revolution and Napoleon, 1789-1815** (Offered in alternate years) 2S
The origins, course and effects of the French Revolution and the impact of Napoleon on France and Europe. The perspective will be continental, including the histories of the major European powers. *Prerequisite:* HIS240Y.
- HIS401Y **Independent Reading**
An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. *Prerequisite:* P.I.
- HIS403Y **Independent Reading**
An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. *Prerequisite:* P.I.
- HIS404H **Explorations in Oral History** (Offered in alternate years) 2T
A seminar on the collection and analysis of historical evidence. Oral history uses first-hand interviews to obtain information about historic events from eyewitnesses. With the aid of faculty members from several fields of history, students will define individual research projects, carry out interviews, and produce an essay and seminar report interpreting the results. *Prerequisite:* one second- or third-year course in modern history.
- HIS422Y **The Crusades** 2S
A study of the military expeditions undertaken by European Christians in the 11th, 12th and 13th Centuries to recover the Holy Land from the Moslems. The crusades will be examined from the standpoint of the European, East Roman (Byzantine) and Moslem participants. *Prerequisite:* HIS220Y or HIS352Y.
- HIS429Y **Civilization and Its Alternatives in the Early Middle Ages** 2S
(Offered in alternate years)
A study of the characteristic elements of "barbarian" and "civilized" cultures and their interactions in the early Middle Ages. Particular attention will be given to questions of religion, economics, and social organization. *Prerequisite:* P.I.

- HIS431Y Topics in Twentieth Century British Diplomacy** 2S
The exercise and decline of British power in foreign affairs, including war aims and the peace settlements of World War One, appeasement between the wars, World War Two, socialist alternatives in foreign affairs, the Suez crisis, Rhodesia, and entry into the European Common Market. *Prerequisite:* P.1.
- HIS479Y Cold War America** 2S
An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. *Prerequisite:* P.1.
- HIS485Y The Problem of Government in Classical Greece** (Offered in alternate years) 2S
A study of forms and ideas of socio-political organization in ancient Greece, concentrating on Athens, from Solon, the founder of her democracy, to Pericles, its greatest exponent.
- HIS486Y From Republic to Principate** (Offered in alternate years) 2S
The breakdown of republican institutions and the evolution of the autocratic system of the Principate, traced from 133 B.C. to 14 A.D., focussing particularly on the life and work of Julius Caesar and Caesar Augustus. *Exclusion:* GRH311Y.

INTERDISCIPLINARY STUDIES

Faculty Advisor: Professor R.W. Van Fossen

"Interdisciplinary Studies" is the name given to a special programme of courses which, because of their innovative character, might not readily be accommodated within the programmes of the regular academic departments of the College. Subject areas are changeable from year to year and students are advised to consult the Associate Dean of Humanities for current details.

- INE203H Effective Writing** 2L, 1P
This half-credit course is for students who already write passable prose but who want to write better. The class will analyse the principles and practice of effective writing and explore various kinds of non-fictional prose, with special emphasis on the expository essay. There will be frequent writing exercises. A screening test will be given at the beginning of the course. *Exclusion:* INE205H.
- INE205H Writing for Business** 2L, 1P
Aimed at students who will be entering the business world, and who already write passably, this half-course will explore the principles and practice of effective writing, with special emphasis on business correspondence and reports. There will be frequent writing exercises. A screening test will be given at the beginning of the course. *Exclusion:* INE203H.
- INE303Y Writing and Teaching** 1L, 1P
Designed in cooperation with the Faculty of Education and local boards of education, this course is for teachers and prospective teachers who want to know more about the principles of effective writing and how to teach students to write better. The course will examine theories of rhetoric and composition, the history and characteristics of the English language, and the stages of writing development from childish syntax to sophisticated prose. It will also provide a range of practical approaches to teaching writing, including teaching strategies, and methods of evaluation.
- INE390Y Independent Studies** TBA
A reading and research project, chosen by the student and supervised by a faculty member, designed to integrate work in an Approved Area of Study. The project will culminate in the writing of a substantial essay. The supervisor will be chosen in consultation with the Programme Co-ordinator. Open only to students enrolled in an Approved Area of Study. *Prerequisite:* Ten or more full-course equivalents and permission of the Programme Co-ordinator.

- INE401Y Senior Essay** TBA
A major independent research project chosen by the student and supervised by a faculty member. All projects must be approved by the Committee on Canadian Studies by the end of classes in the previous year. Application forms are available from the Programme Co-ordinator. *Prerequisite:* Open only to students with at least fifteen full-course equivalents and the permission of the Programme Co-ordinator.
- INE402Y Selected Topics in Canadian Studies** TBA
A seminar course considering varied perspectives on Canadian themes or periods as presented by several disciplines. The topics to be studied will be decided in accordance with the special interests of the students involved. *Prerequisite:* Permission of the Programme Co-ordinator.

ITALIAN

Faculty Advisor: G. Pugliese

The Italian programme at Erindale is designed to provide a comprehensive study of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. The greatest attention is devoted to literature, as a principal manifestation of the national spirit, with courses organized around major figures, movements or genres, but other facets of Italian life and civilization are also examined. Language is studied scientifically from all points of view - practical, stylistic, philological and historical - at all levels of instruction.

Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada, provides a social, intellectual and practical incentive for the study of Italian.

Students are free to design for themselves the programme of study best suited to their interests and needs, and they can choose from available courses at Erindale and at St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone) (b) for a major (in Italian and another discipline) and (c) for a minor.

In case of uncertainty with regard to the programme of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the discipline representative for Italian at Erindale.

Please see Section 7 for details of Programme Requirement.

- ITA100Y Italian For Beginners** 4L, 1P
An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. *Exclusion:* Previous schooling in Italian.
- ITA115Y Beginning Italian For Dialect Speakers** 4L, 1P
An introduction to the main elements of Italian grammar for students who speak, understand or have studied some Italian but do not have Grade 12 or 13. Language laboratory, linguistic study of modern Italian prose, composition, conversation. *Exclusion:* Grade 12/13 ITA.
- ITA200Y Continuing Italian** 3LS, 1P
This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. *Prerequisite:* ITA100Y. Grade 13 ITA.

- ITA210Y Continuing Italian For Dialect Or Native Speakers** 3L, 1P
A comprehensive review of Italian grammar with readings from a variety of texts. Composition and conversation are integral parts of this course. *Prerequisite:* ITA100Y/Grade 13 ITA.
- ITA220H Modern Critical Approaches to Italian Literature** 2L, 1T
An introduction to the art of interpreting works of the imagination through discussion and analysis of various critical methods and by means of the concrete evaluation of Italian poetry, drama and fiction. *Corequisite:* ITA200Y/210Y.
- ITA221H Forms of Modern Italian Literature** 2L, 1T
An introduction to twentieth century Italian literature mainly through a study of representative "novelle" and plays. Selections will include short stories by Moravia, Bassani, Ginzburg and others and plays by Pirandello and others. *Prerequisite:* Grade 13 ITA.
- ITA230Y Italian Literature Through the Ages** 2L, 1T
A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle" but theoretical pieces and short plays of recognized literary significance will also be examined. *Prerequisite:* ITA100/Grade 13 ITA.
- ITA235Y Topics in Italian Civilization** 2L, 1S
Various aspects of modern Italian civilization such as fascism, the Resistance, mafia, industrialization, language and mass-media, immigration, the generation of '68, terrorism, women's liberation, religion and political ideologies will be discussed through a selection of short stories, novels, sociological and historical documents, articles from newspapers and magazines. *Prerequisite:* ITA100Y/115Y/Grade 13 ITA.
- ITA240Y Italian Cinema (In English)(Offered in alternate years)** 2L
A course designed to explore the characteristics of the modern Italian film. The stress will be on works by such established masters as Rossellini, Visconti, Fellini and Antonioni, but films by younger directors (e.g. Wertmuller, Bertolucci) will also be examined. All analysis and discussion to be entirely in English.
- ITA270H Reality, Myth, Death: The Modern Italian Novel (In English)** 2L
(Offered in alternate years)
All classes will be conducted in English and all novels will be in English translation. Works to be read include: Moravia's *The Conformist*, Bassani's *Garden of the Finzi-Contini*, Silone's *Bread and Wine*. The background will be approached in informal group discussions. *Exclusion:* ITA360Y.
- ITA272H Pirandello and the Modern Italian Theatre (In English)** 2L, 1T
(Offered in alternate years)
The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti and De Filippo (including *Marriage Italian Style*) will also be read. All texts and discussions will be in English.
- ITA275Y The Culture of the Italian Renaissance (In English)(Offered in alternate years)** 2L, 1S
A survey of the art forms, social ideals and intellectual ideology of the Italian people in the fifteenth and sixteenth centuries, with some attention also given to the political and economic conditions of the period. Artists, writers and philosophers, whose major works will be considered, include: Michelangelo, Leonardo da Vinci, Castiglione, Machiavelli, Cellini, Pico della Mirandola. Slides, records and other illustrative materials will be used.
- ITA321Y Dante's Divina Commedia** 2L, 1T
An introduction to the work and thought of Dante, with special emphasis on the *Inferno* and *Purgatorio*. *Prerequisite:* ITA200Y/210Y.

- ITA322H **Introduction to Modern Italian Poetry**(Formerly ITA371H) 2L, 1T
(Offered in alternate years)
A critical appraisal of the poetry of the post-Romantic era and of the first half of the twentieth century. Poets studied: Pascoli, D'Annunzio, Gozzano, Saba, Ungaretti, Montale and others. *Prerequisite*: ITA200/210Y.
- ITA323H **Machiavelli, Castiglione and Guicciardini** (Offered in alternate years) 2L, 1T
A course on the social and political thought of the Italian Renaissance as reflected in Machiavelli's *Principe*, Castiglione's *Cortegiano* and Guicciardini's *Ricordi*. These works will also be considered from a literary point of view. *Prerequisite*: ITA200Y/210Y.
- ITA325H **Leopardi's *Canti*** (Formerly ITA324H)(Offered in alternate years) 2L, 1T
A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. *Prerequisite*: ITA200Y/210Y.
- ITA326H **Petrarca** (Offered in alternate years) 2L, 1T
A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. *Prerequisite*: ITA200Y/210Y.
- ITA330Y **The Cinema of Antonioni and Fellini**(Offered in alternate years) 2S, 2P
Both directors will be studied in depth. Particular attention will be devoted to showing how they resolved the technical transition from black and white to colour and how their cinematic mythologies evolved. Since they bridge the gap between neo-realism and contemporary ideologies their influence on the current generation of Italian directors such as Bertolucci will also be demonstrated. Readings will include shooting scripts and technical and theoretical writings on the cinema. *Prerequisite*: ITA240Y.
- ITA340Y **Creative Italian (I)** 2L, 1P
Advanced language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions, some translation. *Prerequisite*: ITA200Y/210Y.
- ITA355Y **Advanced Translation** 1L, 2P
Techniques and theories of translation, using modern texts containing a variety of linguistic codes. Some simultaneous translation. *Prerequisite*: ITA340Y.
- ITA390Y **20th-Century Novel and Drama** (Formerly ITA360Y)(Offered in alternate years) 2L, 1S
Masterpieces of modern Italian fiction and drama analyzed against the background of modern-day Italy. One work will be examined in detail from each of the following novelists and playwrights: Svevo, Vittorini, Buzzati, Calvino, Pirandello, Betti and De Filippo. *Prerequisite*: ITA200Y/210Y.
- ITA395H **Major Novels of the 19th-century** (Offered in alternate years) 2L, 1T
A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's *I promessi sposi* and Giovanni Verga's *I Malavoglia*. *Prerequisite*: ITA200Y/210Y.
- ITA420Y **Renaissance Epic Poetry** (Offered in alternate years) 2L, 1T
A study of Ariosto's *Orlando furioso* and Tasso's *Gerusalemme liberata* within the context of epic poetry. *Prerequisite*: ITA200Y/210Y.
- ITA427H **Boccaccio** (Offered in alternate years) 2L, 1T
A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the *Decameron*. *Prerequisite*: ITA200Y/210Y.
- ITA436Y **The 18th-century in Italy** (Offered in alternate years) 2L, 1T
An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. *Prerequisite*: ITA200Y/210Y.

- ITA450H **Advanced Composition** (Offered in alternate years) 1L,2P
Analysis of expressive strategies and discussion of problems relating to syntax, morphology and vocabulary as they arise from individual compositions and essays. *Prerequisite:* ITA210Y/340Y.

LATIN

(See Classics)

- LAT100Y **Introductory Latin** 4S
A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature.
- LAT210H **The Poetry of Catullus** 3S
(I) Selections from the work of Catullus, including both the love poetry and the poetry of social comment with particular emphasis on the literary value of Catullus' work; includes study of the Latin language. *Prerequisite:* Grade 13 Latin/LAT100Y/130Y(G).
- LAT211H **The Poetry of Horace** 3S
(I) Selections from the *Odes* of Horace, with particular emphasis on the literary quality of Horace's lyric poetry; includes study of the Latin language. *Prerequisite:* Grade 13 Latin/LAT100Y/130Y(G).
- LAT228Y **Introduction to Roman Law** (Offered in alternate years) 2T
The purpose of this course is to improve the Latin of students with some interest in law. The reading will be selections from the second century A.D. textbook of Roman law, the *Institutes of Gaius*, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' *Classical Roman Law* will be used for reference. The course will include some lectures on the history of Roman Law. *Prerequisite:* Grade 13 Latin/LAT100Y/130Y(G).

LINGUISTICS

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning.

Undergraduate Linguistics is a valuable component of a liberal education, especially in a multi-lingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important.

Students interested in linguistics should consider the following: ENG200Y, FRE272Y, MAT104H, PHL245H, PSY315H, PSY323H, PSY374H, PSY393H, SOC152Y, SOC308H, SOC309Y, SPA425H.

- LIN100Y **Introduction to General Linguistics** 2L, 1T
Aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not indoctrination into any particular school of linguistic thought but rather to acquaint students with the various possibilities of analyzing the components of language. Since the primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., the course uses a multi-disciplinary approach.

MATHEMATICS

(See also Applied Mathematics)

Faculty Advisor: Professor J.E. Lebel

Mathematics historically was concerned with concrete notions of space and number. From these concrete notions have evolved such abstract ideas as "set" and "group" which form the subject matter of contemporary Mathematics, and Mathematics today may be considered as the art or science of making deductions from given statements. The deductions themselves and the methods used to make them, come within the scope of Mathematics, while the original statements (hypotheses) largely lie outside. The observation that the results deduced apply to any collection of objects and relations that satisfy the hypotheses is the key to the immense power and surprisingly wide utility of Mathematics.

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is part of the mainstream of human culture. To the scientist, engineer, or social scientist it is an important working tool. To the mathematician, it is an end in itself. The Department of Mathematics attempts to provide courses to suit all these diverse viewpoints.

The pure mathematician is interested in abstract mathematical structures in their own right. He is guided by considerations of taste, beauty, and rigour and may view his subject as an art. The main fields of pure Mathematics are algebra, analysis, geometry, topology, and foundations.

The applied mathematician is more interested in how he can use those structures to study some aspect of the world around him. Applied Mathematics, originally used to describe the application of Mathematics to certain classical fields of Physics, today includes such fields as optimization theory, communication theory, combinatorics, theory of games, and numerical analysis. (Such areas as programming languages and automata form part of the rapidly growing subject of Computer Science. Although historically the main applications of Mathematics have been to physical sciences, contemporary Mathematics has significant utility for nearly all sciences and for such diverse subjects as Economics and Linguistics. Mathematics is the language of precise thought.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is an excellent foundation for further work in a wide variety of fields in the sciences and social sciences, especially when the interplay of many complex factors is involved.

The Specialist Programme in Mathematical Sciences is recommended to students who want a deep knowledge of the subject, such as those who are contemplating graduate work in Mathematics, including Applied Mathematics or Mathematical Physics. The programme is highly recommended as preparation for teaching in secondary schools. Mathematics can also be combined with other fields of study, such as Actuarial Science, Biology, Chemistry, Economics, Linguistics, Philosophy, Psychology or Statistics.

The sequential nature of Mathematics means that prerequisites are essential in many courses and steady work is usually required. Students are advised to consult the prerequisites of courses in which they may be interested in subsequent years. A student who wishes to take a course in Mathematics for which he lacks the required prerequisite may be permitted to do so if, in the opinion of the Department, he demonstrates adequate preparation for the course.

First year students with adequate preparation who want a substantial mathematics course either for its own sake or in conjunction with another field of study are advised to take MAT138Y.

Erindale College offers a range of courses sufficient for specialization in Mathematics.

Please see Section 7 for details of Programme Requirement.

- MAT104H Symbolic Logic** (Formerly MAT204H) 2L, 1T
Propositional calculus. Predicate calculus. The aims of the course are to develop a clear understanding of logical concepts and to acquaint students with proof techniques. *Exclusion*: PHL245H.
- MAT108H Introductory Linear Algebra** (Formerly MAT208H) 2L, 1T
Systems of linear equations; rank and nullity. Determinants. Vectors in 2 and 3 dimensions; transformations, area and volume. Matrices. Elementary geometry of complex numbers. Properties of the roots of polynomials. *Exclusion*: MAT124H, 225Y(G).
- MAT110Y Basic Calculus** 2L, 2T
Limits. Techniques of differentiation and integration. Extreme values. Graph sketching. *Exclusion*: Grade 13 Mathematics (R&F, C), MAT130Y, 132Y, 133Y, 134Y, 135Y, 138Y, 139Y, 150Y.
- MAT124H Finite Mathematics** 2L, 2T
Matrices and their properties. Notions of probability, game theory, the simplex programming method and Markov chains. Applications. *Exclusion*: MAT208H, 225Y.
- MAT132Y Calculus** 2L, 2T
Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of calculus. Complex numbers. Sequences and series. Elementary linear algebra and partial derivatives. *Exclusion*: MAT110Y, 130Y, 133Y, 134Y, 135Y, 138Y, 139Y, 150Y. *Prerequisite*: Grade 13 Mathematics (R & F, C).
- MAT138Y Calculus** 2L, 2T
Basic concepts of calculus: number systems, the derivative, the integral, the fundamental theorem, improper integration and limits. Techniques of differentiation and integration with applications. Construction of exponential and logarithmic functions. Calculus of vector functions. Taylor's theorem. Sequences and series: convergence tests, power series, Taylor's theorem. This course is more intensive than MAT132Y. *Exclusion*: MAT110Y, 130Y, 132Y, 133Y, 134Y, 135Y, 139Y, 150Y. *Prerequisite*: Grade 13 MAT A, R&F and C.
- MAT214H Differential Equations** 2L, 1T
Ordinary differential equations. Emphasis throughout on applications. This half course is identical with the first half of MAT235Y. *Exclusion*: APM251Y, MAT230Y(G), 234Y, 235Y. *Prerequisite*: MAT132Y/134Y/135Y/138Y/139Y/150Y.
- MAT228H Linear and Multilinear Algebra** 2L, 1T
Introduction to vector spaces. Linear transformations and eigenvalues. Quadratic forms and the spectral theorem. Geometric interpretations. *Exclusion*: MAT224H, 225Y. *Prerequisite*: MAT108H/208H or (Grade 13 Algebra and MAT138Y).
- MAT234Y Advanced Calculus For Social Scientists** 2L, 1T
Sequences and series. Differential calculus for functions of several variables. Taylor series in one and many variables. An introduction to integral calculus for functions of two variables. An introduction to optimization; extremal problems. Lagrange multipliers; linear programming. Difference and differential equations emphasizing linear systems. Applications to economics and Markov chains. *Exclusion*: MAT230Y, 235Y, 239Y, 250Y. *Prerequisite*: MAT132Y/134Y/138Y/139Y/150Y.
- MAT235Y Advanced Calculus For Scientists** 2L, 1T
Sequences and series. Differential and Integral calculus of functions of several variables. Line and surface integrals. Ordinary differential equations. Applications. *Exclusion*: MAT214H, 230Y, 234Y, 239Y, 250Y, APM251Y. *Prerequisite*: MAT132Y/134Y/135Y/138Y/139Y/150Y.

- MAT239Y Calculus and Linear Algebra II** 2L, 1T
Determinants, eigenvalues and eigenvectors. Elements of topology in \mathbb{R}^2 and \mathbb{R}^3 . Curves and surfaces in \mathbb{R}^3 . Differential calculus of vector-valued functions of a vector variable, with emphasis on vectors in two and three dimensional Euclidean space. Applications. Taylor's series in several variables. Uniform convergence. Integral calculus, line and surface integrals Stokes' theorem. *Exclusion:* MAT224Y(G)/225Y(G)/230Y(G)/234Y/235Y/250Y(G). *Prerequisite:* MAT138Y/139Y.
- MAT304H Intermediate Logic** (Offered in alternate years) 2L, 1T
A continuation of MAT104H, treating the soundness and completeness of predicate logic. Metamathematics. *Exclusion:* PHL345H. *Prerequisite:* MAT104H/204H.
- MAT310H Set Theory: An Introduction** (Offered in alternate years) 2L, 1T
The mathematical theory of sets. The classical paradoxes. The concept of infinity. *Prerequisite:* MAT228H/239Y.
- MAT328H Algebra and Geometry** (Offered in alternate years) 2L, 1T
A continuation of MAT228H with emphasis on applications of linear algebra to geometrical and kinematical problems. Angles in space, the differential geometry of curves and the motion of rigid body. *Prerequisite:* MAT228H.
- MAT329H Geometric Structures** (Offered in alternate years) 2L, 1T
A survey course in geometry touching on elementary geometry from an advanced point-of-view, geometric transformations, geometric invariants, Euclidean, projective, affine, and non-Euclidean geometries. *Prerequisite:* MAT239Y/328H.
- MAT334H Complex Variables** 2L, 1T
Theory of functions in one complex variable; analytic and meromorphic functions; Cauchy's theorem, residue calculus, conformal mappings; introduction to analytic continuation, harmonic functions. *Exclusion:* MAT319H, 330Y. *Prerequisite:* MAT239Y/250Y.
- MAT338H Analysis** (Offered in alternate years) 2L, 1P
Basic properties of real numbers. Topology of \mathbb{R}^n . Convergence of real and complex sequences and series. Power series, uniform convergence. Riemann Integral. Introduction to the Lebesgue Integral. Calculus of vector functions. *Prerequisite:* MAT239Y.
- MAT344H Introduction to Combinatorial Mathematics** (Offered in alternate years) 2L, 1T
Basic counting principles. Inversion formulas, principle of inclusion-exclusion. Generating functions. Permutations with restrictions. Graph theory and applications. *Prerequisite:* CSC348H.
- MAT349H Abstract Algebra** (Offered in alternate years) 2L, 1T
Group theory and field theory leading to Galois theory and its applications. *Prerequisite:* CSC348H.
- MAT359H Introduction to Topology** (Offered in alternate years) 2L, 1T
Topics selected from point-set, geometric, and algebraic topology. *Prerequisite:* MAT239Y/250Y.
- MAT399H Independent Work in Mathematics**
A prospective student should select his topic and advisor before the end of second year and discuss the topic with his advisor. *Prerequisite:* Acceptance by an advisor.
- MAT402H Advanced Topics in Logic** (Offered in alternate years) 2L, 1T
A selection of topics of contemporary interest in mathematical logic. These may include: proof theory, incompleteness, decidability or the theory of recursive functions. *Exclusion:* PHL445H. *Prerequisite:* MAT104H/204H/PHL245H, MAT304H/PHL345H.

PHILOSOPHY

Faculty Advisor: Professor W.J. Huggett

ERINDALE PHILOSOPHY HANDBOOK. Because of space and time restrictions, the Calendar gives only brief and abstract descriptions of courses. The Philosophy Handbook, which is produced in the spring, gives detailed information on course outlines, requirements, reading, instructors, time-tabling, etc. It is available at the Philosophy Department, Room 235 North Bldg. phone 828-5290, or will be mailed on request. It is an essential supplement to the Calendar and students are urged to consult it.

The Philosophy Discipline Representative and staff will be glad to offer advice and assistance. To arrange for counselling, by a faculty member, phone 828-5290.

The Greek words from which "philosophy" is formed mean "love of wisdom" and all great philosophers have been moved by an intense devotion to the search for wisdom. What distinguishes philosophy from the physical and social sciences is its concern not only with the truths which are discovered by means of specialized methods of investigation, but with the implications such discoveries have for human beings in their relations with one another and the world. Moreover, philosophy has an abiding interest in those basic assumptions about the nature of the physical and social world, and about the nature of inquiry itself, which underlie the methodology by means of which scientists seek to explain their observation.

Philosophy examines the grounds for those beliefs which make up people's fundamental views of the world. Here are a few fundamental beliefs, some held by some people, some by others:

"Telling lies is always wrong", "Some things can never be known", "The material world is all that exists", "What is right or wrong depends entirely on one's society or culture", "People are inherently selfish", "Life must have a transcendent purpose". There are many other similar beliefs which deeply affect the way we think and live. Philosophers discuss them as thoroughly and systematically as possible.

The Philosophy Department offers courses which study basic works of famous philosophers of the past taken in their historical settings, and it offers courses in which students are trained to think critically about philosophical issues themselves. A glance through the courses offered in Philosophy will inform any prospective student of the names of philosophers studied, and the special areas investigated in the Philosophy programmes at the University of Toronto. A dictionary or encyclopedia will supply the standard definition of logic, ethics, epistemology, and metaphysics. But whoever wants to know what philosophy is must do it. A student can learn a great deal from a study of what has been written by the great philosophers through history. But such study is only an important preliminary. To read without bold and critical thinking is next to useless.

Some students may not wish to undertake more than a few courses in philosophy to supplement their work in other fields. They may make a free choice among the courses offered by the Department. The only restrictions are that they take no more than one 100-level course and that 300- and 400-level courses presuppose previous work in philosophy. All courses at the 200-level are open to any student. Many students will find that their interests embrace philosophy and some other subject. The Philosophy Department has joint programmes with various departments. Other students will find that their primary interest is in philosophy. The Specialist Programme is designed for such students. Its completion may be a step toward graduate study in philosophy, or it can lead in other directions; law, journalism, education, theology, and politics are some possibilities. It cannot be stressed too strongly, however, that one of the chief rewards of studying philosophy must always be intrinsic to the subject itself.

Please see Section 7 for details of Programme Requirement.

PHL100Y **Logic, Knowledge, and Reality**

3L

An introduction to the areas of philosophy, emphasizing logic, theory of knowledge, and metaphysics. Elementary techniques of modern symbolic logic and problems in inductive logic and probability. What can be known with certainty? What is reality? Are there limits to knowledge? *Exclusion:* PHL101Y, 102Y, PHI103Y, 104Y, 105Y.

- PHL101Y God, Mind, and Value** 3L
 An introduction to philosophy, stressing conceptions of human nature and of the good life. The religious dimension of life; arguments for the existence of God; free will; mind and body in relation to the scientific image of human nature; the question of a rational foundation for morality; the relation of individual to state; authority, liberty, and justice. *Exclusion:* PHL100Y, 102Y, PHI103Y, 104Y, 105Y.
- PHL102Y Philosophical Classics** 3L
 A historical introduction to philosophy, including philosophers such as Plato, Aristotle, Aquinas, Descartes, Berkeley, Hume, Mill, Nietzsche, Russell. *Exclusion:* PHL100Y, 101Y, PHI103Y, 104Y, 105Y.
- PHL200Y Birth of Western Philosophy** 3L
 Classical doctrines of Plato and Aristotle concerning the universe and God, human knowledge and logic, soul and body, moral values and the good life. Plato's predecessors, the pre-Socratics and Socrates, and post-Aristotelian developments in Stoicism, Epicureanism and neo-Platonism.
- PHL210Y 17th and 18th Century Philosophy** 3L
 Classic texts by European philosophers (e.g. Hobbes, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.) Their attitudes toward science and religion, and their theories about the nature of the world and of human knowledge, culminating in the "Copernican Revolution" of Kant.
- PHL215H Schopenhauer, Nietzsche and Kierkegaard** 3L
 Three dissenters from the ideology of progress: Schopenhauer's rationale for pessimism, Kierkegaard's view of faith, Nietzsche's arguments on the relation of values to power and will.
- PHL220H Introduction to Existentialism** 3L
 Existentialists have influenced theology, psychology, anthropology, literature and art. Several thinkers are studied, with emphasis on the sense of human existence, creativity, and freedom.
- PHL230H Knowledge, Belief, and Truth** 3L
 An introduction to epistemology: the nature and scope of human knowledge. Perception, meaning, evidence, certainty, skepticism, belief, objectivity, and truth. Readings from both historical and contemporary thinkers.
- PHL231H Existence and Reality** 3L
 An introduction to metaphysics: conceptions of the overall framework of reality. Typical problems: existence and essence; categories of being; mind and body; freedom and determinism; causality; space and time; God.
- PHL234H Miracles, Mysticism, and the Paranormal** 3L
 Metaphysical and epistemological problems raised by claims about such issues as miracles, mysticism, extrasensory perception, psychokinetic powers, and altered states of consciousness.
- PHL235H Philosophy of Religion** 3L
 The nature of religion; religious faith; arguments for God's existence; religious experience; religion and human autonomy; the problem of evil; religious and atheistic existentialism. *Exclusion:* PHI236Y.
- PHL240Y Philosophy of Human Nature** 3L
 An introduction to the philosophy of mind. Consciousness and the body; personal identity and survival; knowledge of other minds; free will and the nature of human action.

- PHL241H Philosophy of the Emotions** 3L
Typical problems studied: Can emotions be assessed as rational irrational? Do we have immediate knowledge of our emotions? Are emotions right or wrong in themselves? Are we responsible for them? How do our socialized emotional repertoires condition our conception or ourselves, including our gender identity? Do they encourage harmful stereotypes?
- PHL243H Philosophy of Human Sexuality** 3L
Philosophical issues about sex and sexual identity will be considered in the light of biological, psychological, and ethical theories of sex and gender. Some typical issues: the analysis of the concept of gender; male and female sex roles; theories of psycho-sexual development; sexual morality; "natural", "normal" and "perverse" sex; sexual liberation; love and sexuality.
- PHL244H Human Nature and Abnormality** 3L
An application of methods and theories in philosophy to controversies concerning such issues as the criteria of sanity, normality, or rationality; intelligence and intelligence testing; male-female sex roles; homosexuality; alienation; or other issues.
- PHL245H Modern Symbolic Logic** 3L
The application of symbolic techniques to the assessment of arguments. Propositional calculus and quantification theory. Logical concepts; techniques of natural deduction. *Exclusion:* MAT104H, 204H.
- PHL246H Probability and Inductive Logic** 3L
The elements of axiomatic probability theory, and its main interpretations (frequency, logical, subjective). Reasoning with probabilities in decision making and science.
- PHL250H Philosophy of Language** 3L
The nature of language as a system of human communication, theories of meaning and meaningfulness, and the relation of language to the world and to the human mind.
- PHL255H Philosophy of Science** 3L
Philosophical attempts to understand and systematize the implications of advances in the physical, social and life sciences: explanation and theory; induction and evidence; cause and effect; space and time; purpose, motive, and freedom.
- PHL265H Introduction to Political Philosophy** 3L
Some main problems of political philosophy; anarchism and the legitimacy of the state; the evaluation of forms of government; liberalism and the limits of state authority; the justification of civil disobedience and revolution; social justice.
- PHL266H Political Theories** 3L
Some texts of major authors will be studied comparatively, critically, and against the background of their times. Ancient or Medieval writings (Plato, Aristotle, or Augustine) on citizenship, the state, power, rights, and the economy will be contrasted with the approach of some modern authors (such as Machiavelli, Hobbes, Marx).
- PHL272H Philosophy of Education** 3L
The nature, aims, and content of education; learning theory; education and indoctrination; the teaching of morals and the morality of teaching; the role and justification of educational institutions, their relation to society and to individual goals; authority and freedom in the school.
- PHL274H Contemporary Social Issues** 3L
Against the background of some major social and political theories, this course will explore such practical problems as nationalism, racism, sexism, inequality, civil disobedience, revolution, and political radicalism.
- PHL275H Introduction to Ethics** 3L
Typical topics: relativism; the nature and limits of moral responsibility; the relation between self-interest and morality; the nature of moral theories. *Exclusion:* PHL276Y.

PHL281H	Morality, Medicine, and the Law Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Euthanasia, health care priorities, abortion, fertility control against the background of some major ethical theories.	3L
PHL282H	Ethics, Health Science, and the Law Moral implications of recent developments in medicine and the life sciences; related legal and social issues. Experimentation on human subjects, transplants, behaviour modification, and genetic control, against a background of some major ethical theories.	3L
PHL285H	Aesthetics Some central areas in philosophy of art such as the nature of a work of art; definitions and theories of arts, aesthetic experience, perception and sensibility; objectivity in criticism; standards of taste or evaluation.	3L
PHL288H	Literature and Philosophy The literary expression of philosophical ideas and the interplay between literature and philosophy.	3L
PHL312H	Kant A systematic study of <i>The Critique of Pure Reason</i> . <i>Prerequisite</i> : PHL210Y.	2S
PHL313H	Issues in Modern Philosophy The critical study of an important text. <i>Prerequisite</i> : PHL210Y.	2S
PHL315H	19th-Century German Philosophy Post-Kantian idealism in Fichte, Schelling, and Hegel, and the reactions against it of Kierkegaard, Marx, and Nietzsche.	2S
PHL317H	Issues in 19th Century Philosophy A theme in several 19th Century philosophers or some aspect of a philosopher's work not typically covered in other courses. <i>Prerequisite</i> : 300 level work in the relevant area.	2S
PHL320H	Phenomenology Phenomenological method examined through a problem or through a study of some philosopher(s), e.g., Meinong, Husserl, Merleau-Ponty. <i>Recommended preparation</i> : PHL220H.	2S
PHL321H	Existentialism Existential philosophy examined through a problem or through a study of some philosopher(s), e.g. Heidegger, Sartre, and Marcel. <i>Recommended preparation</i> : PHL/PHI320H.	2S
PHL326H	Wittgenstein (Alternates with PHL350H) Wittgenstein's views on the structure and function of language, meaning, the possibility of a private language, and the concepts of feeling and thinking. The <i>Tractatus Logico-Philosophicus</i> and the <i>Philosophical Investigations</i> . <i>Recommended preparation</i> : PHL210Y, 245H.	2S
PHL327H	Contemporary Analytic Philosophy Problems in analytic philosophy, stressing new directions and some recent controversies. <i>Prerequisite</i> : PHI/PHL245H/P.I.	2S
PHL332H	Issues in Metaphysics Typical problems: ontological categories; ontological commitment; the objectivity of space and time: causality and determinism; mind and body.	2S
PHL333H	Issues in Epistemology Typical problems: knowledge and belief, perception, the analytic-synthetic distinction, theories of truth, necessity and the <i>a priori</i> .	2S

- PHL335H Issues in Philosophy of Religion** 2S
Some specific problem(s) in the philosophy of religion, such as religious paradox, the ontological argument, theories concerning God's transcendence, and human freedom in relation to God. *Prerequisite:* PHL235H/PHI236Y.
- PHL340H Issues in Philosophy of Mind** (Alternates with PHL341H) 2S
Typical problems: the brain-mind identity theory; intentionality and the mental; personal identity; the nature of human action. *Recommended preparation:* PHL240Y.
- PHL341H Freedom, Responsibility, and Human Action** (Alternates with PHL340H) 2S
Human action and the nature of freedom and responsibility in the light of contemporary knowledge concerning the causation of behaviour. *Recommended preparation:* PHL240Y.
- PHL344H Metalogic** 3L
Soundness and completeness of propositional and quantificational logic, undecidability of quantificational logic, and other metalogical topics. *Exclusion:* MAT304H. *Prerequisite:* PHL245H/MAT104H/204H.
- PHL345H Intermediate Logic** 3L
A sequel to PHL245H, developing skills in quantificational logic and treating of definite descriptions. The system developed will be used to study a selection of the following topics: philosophical uses of logic, formal systems, set theory, non-classical logics, and metalogic. *Prerequisite:* PHL245H/MAT104H/204H.
- PHL346H Philosophy of Logic and Mathematics** (Alternates with PHL347H) 2S
Platonism versus nominalism the relation between logic and mathematics, epistemological implications of Gödel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, synonymy, intuitionism, constructivity. *Exclusion:* MAT308H. *Prerequisite:* PHL245H/MAT104H/204H.
- PHL347H Many-Valued and Modal Logics** (Alternates with PHL346H) 2S
Many-valued and modal propositional logics and their interrelations; logical matrices and possible-world semantics; problems of interpretation and philosophical applications. *Exclusion:* MAT312H. *Prerequisite:* PHL245H/MAT104H/204H.
- PHL349H Set Theory** 2L, 1T
An intuitive development of set theory with some attention to philosophical problems surrounding it. *Exclusion:* MAT310H. *Prerequisite:* PHL245H/MAT104H/204H.
- PHL350H Philosophy and Grammar** (Alternates with PHL326H) 2S
The claims of Logical Positivism, "Oxford Philosophy", Structuralism, or modern Generative Linguistics about the relevance of grammar to philosophy. The rationale of going from structural considerations to philosophy. The rationale of going from structural considerations to hypotheses about mind, metaphysics, and meaning.
- PHL362H Philosophy of History** 2S
Typical questions: Has history any meaning? Can there be general theories of history? How are the findings of historians related to the theories of metaphysics and of science? Is history deterministic? Must the historian make value judgements? Is history a science or an art? Are there historical forces or spirits of an epoch?
- PHL365H Contemporary Political Theory** (Alternates with PHL375H) 2S
Some important twentieth-century writings. *Prerequisite:* One of PHL265H, PHL268H, 269H.
- PHL370H Issues in Philosophy of Law** 2S
A selection of issues and texts.
- PHL372H Issues in Philosophy of Education** 2S
A selection of issues and texts. *Prerequisite:* PHL272H.

PHL375H	Contemporary Ethical Theory (Alternates with PHL365H) A selection of issues and texts. <i>Prerequisite:</i> One of PHL275H, 278H, 279H.	2S
PHL396H/397H/398H/399H	Special Topics	2S
PHL400H	Advanced Topics in History of Philosophy	2S
PHL410H	Advanced Topics in Problems of Philosophy.	2S
PHL445H	Advanced Topics in Logic <i>Exclusion:</i> MAT402H. <i>Prerequisite:</i> PHL245H/MAT204H, PHL345H/MAT304H.	2S
PHL496H/497H/498H/499H	Individual Studies	

PHYSICS

Faculty Advisor: Professor R.M. Farquhar

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relationships among various quantities. These relationships are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The non-science student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.

The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the physics students of the College.

Students wishing to specialize in physics should consult a physics professor.

Recommended first-year programme:

First year students are enrolled in a combined PHY118Y/140Y course with common lectures and laboratories in the fall term. Students with a minimum of 70% at Christmas are eligible for PHY140Y and are strongly encouraged to enroll in PHY140Y for the spring term.

- i) for physics and science specialists
PHY140Y, MAT138Y (MAT132Y may be acceptable for some programmes).
- ii) for pre-meds, general interest, etc.
PHY118Y, MAT132Y/138Y.

Second Course in Physics:

PHY210Y is recommended for students in Biology, Geography, Anthropology and, in general, anyone who wishes a second course in physics.

PHY220H is recommended for students in Survey Science.

Please see Section 7 for details of Programme Requirement.

- PHY118Y World of Physics** 3L(F), 2L(S), 1 1/2P, 1T
 Recommended for students interested in a general survey course in physics. An overview of physics is presented starting from its classical foundations, through its evolution to the present and on to some of the challenges which lie ahead. Topics include: kinematics and dynamics of particles; special relativity; forces; work and energy; conservation laws; electricity and magnetism; nuclear and elementary particle physics. NOTE: Students with a minimum of 70% at Christmas are strongly encouraged to transfer enrollment to PHY140Y for the spring term. PHY118Y is a prerequisite for PHY210Y only. Entrance from PHY118Y into other second year physics courses requires a minimum final mark of 70% in PHY118Y and permission of instructor. *Exclusion:* PHY140Y. *Prerequisite:* Grade 13 MAT/R&F/C. *Corequisite:* MAT132Y/138Y.
- PHY140Y Principles of Physics** 3L(F), 2L(S), 1 1/2P, 1T
 Designed to provide science students with a thorough quantitative foundation in physics and experience in applying physical principles. The course is a systematic development of classical and relativistic mechanics and their application to current problems in different sciences. Topics include: forces, statics, kinematics in two- and three-dimensions; special relativity, momentum, energy conservation laws, particle dynamics, gravitation; systems of particles, rotational motion, relativistic dynamics, oscillations. This material will be discussed with applications to problems in elementary particle physics, nuclear physics, geophysics and other sciences.
 NOTE: A minimum mark of 70% at Christmas will be required to continue PHY140Y for the spring term. Students not qualifying in this way must transfer to PHY118Y for the spring term. *Exclusion:* PHY118Y. *Prerequisite:* Grade 13 PHY, Grade 13 MAT, R&F, C. *Corequisite:* MAT132Y/138Y. *Recommended preparation:* Good standing in Grade 13 physics and mathematics.
- PHY210Y Applied Biological and Medical Physics** 2L, 1T
 A course of selected examples from applied physics having particular importance to biophysics, medicine and engineering. Calculus will be used to solve problems. Topics include: optics, lasers and vision; basic electronics and the electrical activity of nerves; energy generation, heat and thermal conductivity; surface tension, fluid flow and the circulatory system; biomechanics and the strength of materials; acoustics and audiology; radioactivity and nuclear medicine.
 NOTE: This course cannot be used for credit towards a specialist programme in physics. *Exclusion:* PHY220H. *Prerequisite:* PHY118Y/140Y, MAT132Y/138Y.
- PHY220H Applied Physics and Optics** 2L(F), 1T
 An introduction to problems in optics and applied physics primarily intended for students enrolled in physics (optional) or survey science. The course consists of the first half of PHY210Y followed by a separate final examination. Emphasis will be placed on solving problems selected from the following topics: optics, lasers and vision; basic electronics; energy generation, heat and thermal conductivity; surface tension and fluid flow. Related biological examples will also be discussed. *Exclusion:* PHY210Y. *Prerequisite:* PHY118Y/140Y, MAT132Y/138Y.
- PHY231Y Electromagnetism** 2L, 1 1/2P, 1T
 Gauss's Law and electrostatics; DC circuits and instruments; AC circuits and resonance; magnetostatics and Faraday's Law; introduction to Maxwell's equations; electromagnetism in material media. Vector analysis will be introduced as required and a working knowledge of calculus and elementary differential equations is assumed. Laboratory experiments are performed which illustrate selected areas of the subject. *Prerequisite:* PHY118Y with a minimum of 70% & P.I.)/140Y, MAT132Y/138Y. *Corequisite:* APM251Y/MAT235Y/239Y.

- PHY254Y Waves and Statistical Physics** 2L, 1P, 1T
 The purpose of this course is to provide the student with a deeper knowledge of certain aspects of classical systems, partly in preparation for more advanced courses. The first part involves a second look at wave phenomena and vibrations, namely: coupled oscillators; normal modes; forced oscillations, resonance; wave propagation and wave packets; Fourier transforms and interference. The second part deals with statistical approaches to physical problems; the laws of thermodynamics and thermal interactions, entropy, many particle systems; kinetic theory of gases and the Maxwell distribution. *Prerequisite:* PHY(118Y minimum of 70% & P.I.)/140Y. *Corequisite:* MAT239Y, MAT214H/APM251Y.
- PHY256H Introductory Quantum Mechanics** 2L(S)
 This course provides a historical and conceptual introduction to quantum mechanics. Topics include the indeterminacy of quantum mechanics, the uncertainty principle, energy quanta and wave-particle duality. Several examples of quantum mechanical systems will be discussed using Schroedinger's equation or Matrix Mechanics. Applications include: the hydrogen atom; systems of identical particles; the periodic table. *Prerequisite:* PHY(118Y with a minimum of 70% & P.I.)/140Y, MAT132Y/138Y. *Corequisite:* MAT235Y/239Y.
- PHY325Y Quantum Physics Laboratory** 6P
 An introduction to modern physics through a set of selected experiments. Topics include: laser physics, atomic spectroscopy, microwave optics, x-ray crystallography, electron diffraction, absorption of gamma rays, cosmic ray showers, nuclear coincidence counting, gamma ray spectroscopy, Rutherford scattering, nuclear magnetic resonance, ferroelectric hysteresis. *Prerequisite:* PHY231Y. *Corequisite:* PHY256H (starting in 1979/80)
- PHY326H Quantum Physics Laboratory** 3P
 This course is one-half of PHY325Y. *Exclusion:* PHY325Y. *Prerequisite:* PHY231Y. *Corequisite:* PHY256H (starting in 1979/80).
- PHY340Y Quantum Mechanics** 2L, 1T
 An introduction to the theory of quantized systems. Topics include: the postulates of quantum mechanics; Hermitian operators; wave mechanics; Schroedinger equation in three dimensions; angular momentum and the hydrogen atom; spin and Pauli matrices; identical particles; perturbation theory, both time-dependent and time-independent; scattering theory. Applications will be drawn from different areas of atomic and nuclear physics. *Prerequisite:* PHY231Y, 256H (starting in 1979/80), MAT235Y/(MAT239Y, MAT214H/APM251Y). *Corequisite:* APM311H/351Y.
- PHY351H Advanced Classical Mechanics** 2L, 1T
 An advanced course in classical mechanics of particles and systems of particles. Topics include: the two-body central force problem, Kepler's Laws, and nuclear scattering; rotating frames of reference, Euler's equations, and gyroscopic motion; Lagrangian and Hamiltonian mechanics, canonical transformations, and Hamilton-Jacobi theory. *Prerequisite:* PHY231Y, MAT235Y/239Y.
- PHY352Y Electromagnetic Fields and Waves** 2L, 1T
 An advanced treatment of electromagnetism with emphasis on the structure and application of Maxwell's equations. Topics in electrostatics include multipole expansions and solutions to Laplace's equations. Propagation of electromagnetic radiation and evanescent waves in free space, dielectrics, conductors and plasmas, material boundaries, in waveguides and resonant cavities, and radiation by antennas and accelerated charges. *Prerequisite:* PHY231Y, 254Y, MAT239Y, MAT214H/APM251Y. *Corequisite:* MAT334H, APM311H/351Y.

- PHY354H Macroscopic Physics** 2L, 1T
A treatment of physical concepts and mathematical techniques in the study of macroscopic systems. Topics include fluid mechanics; viscosity; surface tension; plasma physics; wave propagation in continuous media; stress-strain relationships and the Navier-Stokes equations; equations of state for a simple fluid. *Prerequisite:* PHY231Y, 254Y, MAT239Y, MAT214H/APM251Y. *Corequisite:* MAT334H, APM311H/351Y.
- PHY425Y Advanced Quantum Physics Laboratory** 6P
A continuation of PHY325Y at a more advanced level. Experimental topics include: light scattering, acousto-optics, magneto-optics, nuclear magnetic relaxation, paramagnetic resonance, surface physics. Students may also have the opportunity to participate in selected research activities. *Prerequisite:* PHY325Y, 340Y.
- PHY470Y Introduction to Research in Physics**
An experimental or theoretical research problem under the supervision of a member of the Physics staff. By special arrangement, this research problem may be started during the summer before the student enters his final year. *Prerequisite:* Permission of Physics Faculty Advisor.
- PHY471Y Supervised Readings**
A programme of individual study chosen by the student with the advice of, and carried out under the direction of, a staff member. A student may take advantage of this course either to specialize further in a field of interest, or to explore interdisciplinary fields not available in the regular syllabus. *Prerequisite:* Permission of Physics Faculty Advisor.

POLITICAL SCIENCE

Faculty Advisor: Professor R.B. Day

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events - for example, a particular Canadian party leadership convention or such Canadian conventions generally - in somewhat the same way as a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government *do* proceed but how they *should* be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as - what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:

- 1) are totalitarian nations more likely to have aggressive foreign policies than have democratic countries?
- 2) is it desirable that governments should not try to "legislate morality"?
- 3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions; at a minimum, it gives a person more ability than he has otherwise, to give an account of the basis of his beliefs, both about what the political world is, and what it can and should be.

Please see Section 7 for details of Programme Requirement.

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| POL100Y | Introduction to Canadian Politics
A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service. | 2L, 1T |
| POL101Y | Introduction to Political Philosophy
The course is intended to introduce students to the most serious general theoretical statements about the nature of politics and the character of the just regime, the regime most appropriate for living the good life. It proceeds by careful study of some of the classic texts in the tradition and also hopes to give a training in how to read the great books dealing with political theory and moral problems. | 2L, 1T |
| POL200Y | Political Theory
The development of political thought from Thucydides (5th century B.C.) to the 17th century. Among the theorists examined are Plato, Aristotle, Machiavelli, Hobbes and Locke. | 2L |
| POL203Y | Politics and Government of the United States
A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. | 2L |
| POL204Y | Politics and Government of the U.S.S.R.
(First part of course lectures, second part seminars)
The first part of the course deals with the historical development of the Soviet political system. The second part deals with a number of current issues: the leadership; party-state relations; public administration; political socialization; and interest groups. | 2L |
| POL208Y | Introduction to International Relations
A study of international systems with emphasis on the sources, patterns and resolution of interstate conflict. | 2L |
| POL209Y | Public Policy-Making in Canada (Offered in alternate years)
Public policies in Canada, the relationship between changing public policies and political development, and the institutional framework within which policies are formulated and implemented. National economic growth and development, regional disparities, social welfare, education, health, law and order. <i>Prerequisite:</i> POL100Y | 2L |
| POL211Y | Canadian Political Parties (Formerly POL311Y) (Offered in alternate years)
The role and functioning of Canadian political parties, intra-party structures and processes, political culture and ideas, federal and provincial party systems, elections and voting. <i>Prerequisite:</i> POL100Y. | 2L |
| POL212Y | Political Mass Movements (Not offered 1981-82)
Examines the values and inherent complexities of democratic society and its non-democratic alternatives, i.e. Communism, Fascism, Nazism. | 2L |

- POL214Y The State in Planned and Market Economies** (Offered in alternate years) 2L
 Considers the main premises of Marxism, Liberalism and Democratic Socialism; the relationship between the Welfare State and the Rule of Law; economic planning and trade union activity in socialist and mixed economies; the role of interest groups in an administrative society; and the relation between political and economic structures. *Prerequisite:* POL100Y/101Y/ECO100Y.
- POL221H Political Participation** 2L
 How and why do people get involved in politics? An examination of the behaviour of the ordinary citizen in Canada and the United States. Topics to be considered include: the development of mass democracy; the form and extension of popular participation; elections and voting behaviour; political protest movements.
- POL222H Elites and Political Leadership** 2L
 An introduction to the study of political leadership and the exercise of political power. Topics will include the relationship of political leaders to the non-political elites in society, the cohesiveness and responsiveness of political leadership, the turnover of elite personnel, and the characteristics and processes of decision-making. *Prerequisite:* POL221H/other POL course.
- POL300Y Topics in Comparative Politics** (Offered in alternate years) 2L
 Comparative political analysis; classification of political systems; political culture, ideology, political elites, mass political socialization, the decision-making process. Illustrative material will be drawn from the Soviet Union, Canada, Great Britain, and the United States.
- POL308Y Urban Politics** 2L, 1/2T
 A comparative course dealing with Urban Politics in Canada, Britain and the United States. It will deal with governmental structure, political issues, and the political process in urban areas. A major element will be a research paper on some aspect of politics in the metropolitan Toronto area.
- POL314Y Public Opinion and Voting** 2L
 An examination of the nature of political attitudes and opinions, the processes by which they are acquired, their use in describing political culture, and the role of opinions and attitudes as explanations of individuals' voting choices. Research on Canadian politics will be discussed in comparison with studies in other countries.
- POL316Y Contemporary Canadian Federalism** 2L
 Constitutional, political, administrative, and financial aspects of federal-provincial relations, regionalism and cultural dualism. *Prerequisite:* POL100Y.
- POL320Y Modern Political Thought** 2L
 The development of political thought in the 18th and 19th centuries; implications for political thought in the 20th century. Democratic and anti-democratic tendencies. *Prerequisite:* POL200Y.
- POL322Y Introduction to Public Administration** 2L
 An introduction to the literature of public administration and to some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries). In other countries primary emphasis will be on policies or features that have influenced Canadian practice. Counts as COM course for purpose of B.Com. *Exclusion:* COM323Y, COM441H, COM442H. *Prerequisite:* POL100Y/COM100Y.
- POL323Y Topics in Canadian Politics** 2S
 A seminar meeting weekly in two-hour sessions. The object is to understand how, or to what extent, the Canadian political system responds to demands made upon it on various issues or in different policy-areas. The selection of topics is arrived at in the seminar. Students will be responsible for completing two term papers, one relating to a political structure or process, the other to development of policy in a particular area. Sessions will be devoted to reviewing and analyzing material related to course topics and to reports on work in progress or completed. *Prerequisite:* POL100Y.

- POL328Y International Organization** 2L
A weekly two-hour lecture concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations and international law in international relations. Most attention will be focused on the two universal, political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered.
- POL329Y Marxism** 2L
A survey of Marxist political thought dealing with the works of Marx; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism, and the problems of modern Communism. *Prerequisite:* A course in political theory or philosophy.
- POL331H Ontario Government and Politics** 2L
Political structures and processes in Ontario; Cabinet government; the interaction of Cabinet. Legislature and public service; political parties and the party system; provincial-municipal relations. *Prerequisite:* POL100Y.
- POL340Y International Law (Not offered in 1981-82)** 2L
International law as an instrument of conflict resolution. Recognition, sovereign immunity, subjects of international law, and jurisdiction are some of the subjects examined. *Prerequisite:* POL208Y.
- POL440Y Undergraduate Thesis**
An independent research course to be undertaken by students specializing in Political Science. *Prerequisite:* Permission of Instructor and Discipline Representative.
- POL441Y Undergraduate Reading Course**
A reading course in which the written component will be agreed upon between the student and instructor. *Prerequisite:* Permission of Instructor and Discipline Representative.

PSYCHOLOGY

Faculty Advisors: Professors R. Abramovitch and A. Fleming

Psychology is the science which examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding, the environment and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigor and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not in itself a professional qualification. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.).

Please see Section 7 for details of Programme Requirement.

- PSY100Y Introductory Psychology** 3L
 Psychology is the science of behaviour; and this course seeks to acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. This course is a prerequisite for all other psychology courses, except PSY201H, 202H.
- PSY201H Research Design and Analysis in Psychology I** 2L, 2T
 Basic descriptive and inferential statistics. *Exclusion:* Any concurrent or previous Statistics course.
- PSY202H Research Design and Analysis in Psychology II** 3L
 Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance. *Exclusion:* Any concurrent or previous statistics course except PSY201H. *Prerequisite:* PSY201H.
- PSY203H Experimental Design and Theory** 3L
 Problems involved in experimental design and the interpretation of experimental findings; the logical structure in psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors. *Prerequisite:* PSY100Y.
- PSY210Y Introduction to Development** 3L
 A survey of the scientific study of the behaviour of children. Topics include the historical and philosophical backgrounds, methods and theories, and research on particular aspects of behavioural development. *Prerequisite:* PSY100Y.
- PSY220Y Introduction to Social Psychology** 3L
 A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. *Prerequisite:* PSY100Y.
- PSY230H Introduction to Personality** 3L
 A survey of theories of personality, focusing on its formation and components, and an evaluation of the empirical status of each theory according to the current research literature. *Prerequisite:* PSY100Y.
- PSY252H Animal Behaviour** 3L
 A study of the social behaviour of organisms as observed and measured in both laboratory and field settings. The evolution and mechanisms of the behaviour of a variety of animals will be examined. Emphasis will be placed on the similarities and differences between species in such behaviours as courtship, mating, parental care, feeding, aggression, and other social behaviours. *Prerequisite:* PSY100Y.
- PSY260H Introduction to Learning** 3L
 A survey of empirical findings and theoretical interpretations relevant to the scientific study of the phenomena of learning and memory in human and animal subjects. *Prerequisite:* PSY100Y.
- PSY270Y Introduction to Cognitive Psychology** 2L
 A systematic investigation of thought processes and mechanisms underlying them. Topics include concept learning, problem solving, language, attention, and information-processing. *Prerequisite:* PSY100Y.
- PSY280Y Perception** 3L
 (Offered alternately on Erindale and St. George Campuses)
 Emphasizes seeing and hearing. The ways the processing systems work in humans and lower animals. Visual perceiving of shape, space, motion, and colour. Auditory perceiving of simple and complex sounds, location, speech. Focus is on the perceiver as seeker and user of information. *Prerequisite:* PSY100Y.

- PSY290Y Introduction to Physiological Psychology** 3L
An introduction to the study of the neural and endocrinological bases of behaviour, including aspects of normal and abnormal neural and cognitive development. *Prerequisite:* PSY100Y.
- PSY303H Individual Project**
(*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY304H Individual Project**
(*) Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY311H Social Development** 3L
A survey of contemporary research and theory in various aspects of social development such as moral development, sex-role development, aggression, pro-social behaviour. *Prerequisite:* PSY210Y.
- PSY314H Perceptual Development** 3L
A survey of current research in auditory and visual abilities in infancy and childhood. *Exclusion:* PSY312H. *Prerequisite:* PSY210Y/280H.
- PSY315H Cognitive Development** 3L
A survey of contemporary research and theory in the development of language, thinking and intelligence, including a consideration of Piaget's views. *Exclusion:* PSY312H. *Prerequisite:* PSY210Y/270Y.
- PSY316H Early Social Behaviour** 3S
An examination of research on topics such as attachment, dependency, and peer relations in infants and young children. *Prerequisite:* PSY210Y.
- PSY319H Developmental Psychology Laboratory** 3P
Readings, laboratory exercises and research projects designed to acquaint the student with methodology appropriate for infant and child study. *Prerequisite:* PSY201H, 202H, 210H.
- PSY320H Social Psychology: Attitudes** 3L
Intensive study of social attitudes and opinions - development, description, measurement, modification, and organization. *Prerequisite:* PSY201H; PSY220H or Y.
- PSY324H Aggression** 2L
Examination of the situational determinants of human aggressive behaviour. Some comparative literature will be related to a global view of the problem. Topics include: definition of aggression, aggression as arousal, alcohol and violence, personal space, anger and cognitive labelling, and deindividuation. *Prerequisite:* PSY100Y.
- PSY329H Social Psychology Laboratory** 3P
Independent research projects in the general areas of social psychology or personality. Each project will include the design of an experiment, data collection, and a written report. *Prerequisite:* PSY201H, 202H, 220Y.
- PSY330H Psychometrics** 3L
Test construction and standardization will be examined with emphasis on theory and execution of standard and special correlational techniques (including Pearson and Spearman methods; partial and multiple correlation; biserial, point-biserial, tetrachoric and phi coefficients). Theoretical and practical implications of the various forms of reliability and validity testing will also be explored in the context of standardization, prediction and normative scaling. *Prerequisite:* PSY201H, 202H, (or an equivalent full course in statistics), PSY230H.

- PSY331H Psychological Tests** 3L
Critical analysis of objective and projective tests of intelligence, personality, interests and aptitudes will be undertaken with considerable emphasis given to reliability and validity research associated with these instruments. *Prerequisite:* PSY330H.
- PSY332H Advanced Personality** 2L
Detailed discussion of the extension of major theories of personality to treatment (therapy) for personality disorders, and research growing out of the theories. *Prerequisite:* PSY230H.
- PSY340Y Abnormal Psychology** 3L
A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques. *Exclusion:* PSY240H. *Prerequisite:* PSY230H/260H (beginning 1980-81, 260H only).
- PSY341H Psychopathologies of Childhood** 2L
Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnosis, approaches to identification of etiologies, and contemporary treatment methods are critically evaluated. The emphasis is on controlled experimentation as a primary source of knowledge about psychopathology and treatment. *Prerequisite:* PSY210Y/340Y.
- PSY354H Comparative Social Behaviour** 3L
Types of social organization and interaction in various animal groups will be discussed. Emphasis will be placed upon the evolution, ontogeny and biological functions of social behaviour in animal groups which possess complex social systems. *Prerequisite:* PSY100Y.
- JPB359Y Sociobiology: Biological Bases of Social Behaviour** 2L, 3P
Concepts from ethology, ecology, and population biology will be introduced and applied to the understanding of the evolution and biological function of social behaviour. Topics to be discussed will include altruism, aggression, social spacing, dominance, sex, parental investment and care, social symbioses, and the evolution of life histories. Emphasis will be placed on the complex social systems of insects and mammals. Laboratory sessions will involve field observations, laboratory demonstrations, and the preparation of individual projects. Given by the Biology and Psychology departments. *Prerequisite:* BIO100Y and PSY100Y.
- PSY373H Human Memory and Learning** 3L
Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour. *Exclusion:* PSY371H, 372H. *Prerequisite:* PSY270Y.
- PSY374H Introductory Psycholinguistics** 2L
A contemporary approach to the psychological study of language and speech, highlighting the biological and cognitive aspects of language acquisition and use. *Exclusion:* JLP324H. *Prerequisite:* PSY270Y.
- PSY375H Attention** 2L
The course will examine the role of attention in behavioural control. Attention will be discussed as a mechanism that permits consistent, coordinated behavior despite stimulus overload or stimulus deprivation. The nature of attention itself will be developed through the discussion of specific topics, and the resulting concepts will be applied to issues in theories of memory, problem solving, and motor performance. *Prerequisite:* PSY270Y.
- PSY379H Human Memory and Learning Laboratory** 3P
Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and are encouraged to design, carry out and write up experiments in this area. *Prerequisite:* PSY201H, 202H, 270Y.

- PSY389H Sensory and Perceptual Processes Laboratory** 3P
The fundamentals of sensory and perceptual processes. Students conduct weekly laboratory experiments, using each other as subjects. *Prerequisite:* PSY201H, 202H, 280H.
- PSY390H Advanced Topics in Physiological Psychology** 2L
Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal bases of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion. *Prerequisite:* PSY290Y.
- PSY392H Psychobiology of Sex Differences** (Offered in alternate years but not in 1981-82) 3L
Critical analysis of research indicating sex differences in behaviour and physiology in humans and other mammals. Discussion of sex differences in reproductive, agonistic and other social behaviours as well as cognitive, perceptual and motivational processes. Emphasis will be on the interaction of cultural and/or biological factors in the development of those functions. *Prerequisite:* PSY210Y/251H/290Y.
- PSY393H Cognitive Neurology** 2S
Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Some sample topics: amnesia and models of memory; split-brain research; the temporal lobes and verbal and non-verbal memory; the role of the frontal lobes; perceptual asymmetries in normal people; models of brain function. *Prerequisite:* PSY100Y.
- PSY394H Motivation and Emotion** 2L
This course will examine models of emotion from an historical and theoretical perspective. Close attention will be paid to the role of cognitive-perceptual, autonomic and somatic variables particularly as they relate to the phenomenology of emotion and the motivation of behaviour. *Prerequisite:* PSY100Y.
- PSY399H Psychobiology Laboratory** 3P
Supervised demonstration experiments designed to familiarize students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals. *Prerequisite:* PSY201H, 202H, 290Y.
- PSY400Y Thesis** 3S
Each student will conduct independent research and write a thesis under the supervision of staff member(s). Seminar meetings will be held weekly to discuss (a) general topics important to the conduct of research; (b) student research proposals; (c) thesis results. Admission decided on the basis of academic merit. *Prerequisite:* (PSY201H, PSY202H)/BIO360Y, a laboratory course in Psychology, satisfactory progress in the Specialist Programme in Psychology or Interdisciplinary Specialist Programme in Animal Behaviour.
- PSY403H Individual Project** (*)
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY404H Individual Project** (*)
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. *Prerequisite:* PSY201H, 202H, a laboratory course and P.I.
- PSY410H Special Topics in Developmental Psychology** (Topics change periodically) 3S
A student-led seminar on selected topics in the current research literature. *Prerequisite:* PSY210Y, 3 of PSY 310-319 series courses, P.I.

*Relevant faculty members must be consulted during preceeding term. Students may take no more than the equivalent of four "project" or "thesis" half courses.

- PSY420H Special Topics in Social Psychology** 3S
Examination in depth of a limited topic within social psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. *Prerequisite:* PSY220Y, P.I.
- PSY440H Special Topics in Abnormal Psychology** 3T
Examination in depth of a limited topic within abnormal psychology. Content in any given year will depend on instructor. Course description is available from the Psychology Secretary. *Prerequisite:* PSY340Y, P.I.

RELIGIOUS STUDIES

Faculty Advisors: Professors L.E. Schmidt and L.J. Elmer

The academic study of religion involves the examination of many forms of religious life, including the great religious traditions (Buddhism, Christianity, Islam, Judaism, Hinduism, etc.) using a variety of methods (historical, philosophical, social scientific). Definitions and theories of religion are integral parts of the subject matter of Religious Studies. The diversity which characterizes the Department is reflected in the variety of courses offered or crosslisted, and by the differences in the background and training of our faculty.

The study of religion offers useful preparation for participation in a religiously diverse society, and for a wide range of careers (eg. social work, law, teaching, leadership in religious organizations). Opportunity is provided for students interested in the graduate study of religion at the M.A. and Ph.D. levels at the University's Centre for Religious Studies. As with other programmes leading to the Bachelor of Arts degree, however, the study of religion is intrinsically valuable and satisfying and can be pursued for its own sake.

Specialist, major, minor and joint programmes are described in detail in the Department of Religious Studies' Handbook. These programmes may include a limited number of relevant courses offered by other Colleges or by departments such as Anthropology, Classics, East Asian Studies, English, Fine Art, History, Middle East and Islamic Studies, Near Eastern Studies, Philosophy, Psychology and Sociology.

Enquiries: Faculty advisors (828-5275) or Department of Religious Studies, 110 Charles St. West. (978-2395)

Please see Section 7 for details of Programme Requirement.

- REL100Y World Religions: An Introduction** 2L, 1T
An introductory course exploring the following religious traditions: Judaism, Zoroastrianism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shintoism. Readings (in translation) from the sacred scriptures of these religions. Comparison of their ideas, attitudes, beliefs, practices, rituals and ceremonies.
- REL105Y Contemporary Problems in Religious Ethics** 2L, 1T
An introduction to the analysis of ethical problems in the context of religious studies. Abortion; poverty; sex, marriage and the changing roles of men and women; genetic engineering; the ecological crisis.
- REL203Y Religion and Literature** 1L, 2T
The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bernanos, Mauriac, Eliot and Camus. (All works to be read in English.)

- REL207H Religion and Identity in Canada** 2L, 1T
Personal and social identity as created and expressed through such Canadian religious groups as "mainline" religious traditions, evangelical sects, pentecostal-charismatic movements, ethnic churches, and the "new religions." Religious behaviour studied as the interplay between believing and belonging. *Recommended preparation:* REL105Y.
- REL210H Hope and the Human Condition** 2L, 1T
Twentieth century Christian responses to the judgment that man's "origin, his growth, his hopes and fears, his loves and beliefs are but the outcome of the accidental collocation of atoms" (Bertrand Russell). The significance of hope for personal, social and political life according to such thinkers as MacQuarrie, Moltmann, Pannenberg, and Metz.
- REL212Y Major Themes in Biblical Literature** 2L, 1T
Major religious themes running through biblical literature. Old and New Testament concepts of creation, election, covenant, salvation, divine law, prophecy, wisdom, justification, etc.
- REL230Y The Roles of Religion in Human Development** (Offered in alternate years) 2L
The positive and negative roles which religion has played and continues to play in human development and in cultural progress. A general analysis of personhood and the need in authentic human living for self-transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health.
- REL241Y Introduction to the New Testament** 2L, 1T
An introduction to the types of literature in the New Testament (Gospels, Acts, Epistles, Apocalypse) and to the distinctive content of the literature as a whole. The history of texts and versions, the process of canonization of the literature, and the critical methods of scriptural study are examined.
- REL261Y Christianity** 2L
The role of Christianity among religions; its contribution to human ethical and religious ideas. Studied in its historical development and through an analysis of its institutions, practices and teachings.
- REL361Y World Religions: A Comparative Study** 2L, 1T
Selected themes and issues in World Religions; a review of various approaches to World Religions developed during the last century; examples of similarity and diversity in religious concepts East and West. *Recommended preparation:* REL100Y.
- REL362H Evolution and Modern Man - A Christian Interpretation** (Offered in alternate years) 2L
The thought and spirit of Teilhard de Chardin as a Christian interpretation of evolutionary theory. Topics include: evolution and Christianity, cosmic convergence, personalizing universe, love as energy, building the earth, dynamics of hope. *Recommended preparation:* one previous REL course.
- REL363H Evil and Sin - a Christian Interpretation** (Offered in alternate years) 2L
The biblical and theological foundations for a Christian interpretation of evil and sin. Evil as problem and as mystery - lines of solution and approaches to the mystery. Old misunderstandings and new insights into a theology of sin. Sin as act and as condition (sinfulness). The role of evil and sin in the process of man's religious development. *Recommended preparation:* one previous REL course.
- REL367Y Religious Geniuses - East and West** (Offered in alternate years) 2L, 1T
Comparison of the lives, teachings, and contributions of such figures as Moses, Zoroaster, Jesus, Mohammed, Buddha, Lao-Tzu and Confucius. Emphasis of the ways they challenged, discarded or reinterpreted traditional views as inadequate or obsolete and on the relevance of their views and teachings for contemporary society. *Recommended preparation:* REL100Y.

- REL375Y Communications and Religious Consciousness** 2L, 1T
 The development of religious identity both from a psychological and a sociological point of view, and the pervasive effects of the communications media on this development. The function of mythic acts, clothes, cosmetics, dance, music, academic structures, novels, movies, newspapers, as well as more personal forms of communication (diary, autobiography, letters, etc.) in the of religious consciousness. *Recommended preparation:* one previous REL course.
- REL490Y Individual Studies**
 Student-initiated projects of reading and research, primarily intended for specialists and supervised by members of the Department. After obtaining a supervisor, a student must apply to the Department.
- REL491H Individual Studies**
 Student-initiated projects of readings and research, primarily intended for specialists and supervised by members of the Department. After obtaining a supervisor, a student must apply to the Department.

SLAVIC LANGUAGES AND LITERATURES

Faculty Advisor: Professor K.A. Lantz

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade 13 or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners Sholokhov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

Please see Section 7 for details of Programme Requirement.

- SLA100Y Elementary Russian** 5T
 An introductory course in Modern Russian. Practice in aural comprehension, speaking, reading, and writing. Language laboratory practice.
- SLA110Y Introduction to Slavic Culture and Literature (In English)** 1L, 1T
 (Offered in alternate years)
 The historical development of Slavic culture, languages, and literatures from the beginning to the present. Readings (in translation) selected from all periods of Russian, Ukrainian, Polish, and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz.
- SLA210Y Nineteenth Century Russian Literature (In English)** 2L, 1T
 A study of the major novels of the nineteenth century with emphasis on the problem of the individual and society. Readings (in translation) of the works of Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and others.

- SLA211Y Masterworks of Russian Literature** (Offered in alternate years) 1L, 1T
Major fictional and dramatic works by nineteenth- and twentieth-century Russian authors, including Pushkin, Gogol, Turgenev, Tolstoy, Dostoevsky, Gorky, Mayakovsky, Pasternak, Solzhenitsyn, Nabokov. An examination of the stylistic range from realism to the grotesque and psychological, political and philosophical concerns of the writers. Readings in English. *Exclusion:* SLA210Y, 310Y.
- SLA220Y Intermediate Russian** 3T, 1P
Continued study of Russian with language laboratory practice, oral practice, composition and conversation based on reading of literary texts and topics of current interest. *Prerequisite:* SLA100Y or Grade 13 Russian.
- SLA310Y Twentieth Century Russian Literature** (In English) 1L, 1T
A survey of Russian literature of this century with emphasis on the Soviet period. A study of modernism; the impact of the 1917 Revolution on literature; the evolution of Soviet literary policy; contemporary problems of artistic freedom. Readings (in translation) will include works by Gorky, Bunin, Babel, Sholokhov, Pasternak, Solzhenitsyn, and others.
- SLA314H Dostoevsky** 2S
Crime and Punishment, The Brothers Karamazov, plus other novels and shorter works. Dostoevsky's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English.
- SLA317H Tolstoy** 2S
War and Peace, Anna Karenina, plus other important shorter works. Tolstoy's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English.
- SLA320Y Advanced Russian** 3T, 1P
Continued study of grammar, composition, and translation. Oral practice and stylistic analysis of selected texts. Extensive reading programme. *Prerequisite:* SLA220Y.
- SLA363H Solzhenitsyn** (Offered in alternate years) 1L, 1T
Solzhenitsyn's critique of contemporary Soviet reality and his interest in moral problems of a more universal nature. His literary craftsmanship. The treatment of Solzhenitsyn's works by Soviet ideologists and Western literary critics. Readings in English.
- SLA367H Chekhov** (Offered in alternate years) 1L, 1T
Major fiction and plays; literary and historical contexts; critical reception; influence on Russian and Western literature; close analysis of texts. Readings in English.

SOCIOLOGY

Faculty Advisor: Professor W. Kalbach

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. Sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students in other fields may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in sociology usually requires advanced training beyond the undergraduate level.

There are a variety of areas of interest which the student may select for emphasis in the specialist and major programmes. The subspecialty areas in sociology are listed below and the Department is prepared to recommend in consultation with the student, programmes which emphasize Canadian society, urban sociology, interpersonal relations, research methods or some other combination of courses. Students entering the sociology programme should enrol with the Department of Sociology *before the end of the first term in their second and subsequent years* and should seek advice from the advisor or other instructors in the Department while working out their programmes. Registration in the final year of studies is necessary to confirm that all requirements are being met and to insure that the specialist, major, or minor status will be noted on one's graduating transcript. Since there have been a number of changes in the sociology specialist and minor programmes (now referred to as major programmes) over the past few years, students should check *their own second year* (or equivalent) Calendar to find the requirements applicable to them. If in doubt, check with your advisor when enrolling in the Department.

The Department of Sociology offers a Specialist, Major and a Minor Programme in Sociology.

Please see Section 7 for details of Programme Requirement.

SOC101Y	Introduction to Sociology An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society.	2L, 1T
SOC152Y	Introduction to Communication Theory and Research This course aims at presenting the major theories of verbal and nonverbal communication. The principal purpose is to familiarize the student with the various possibilities of analyzing communication from the point of view of psychology, sociology, philosophy, linguistics, drama, physics and religious studies. The course further aims to acquaint the student with the research methods most commonly used in designing experiments in communication. <i>Prerequisite:</i> SOC101Y either previously or concurrently.	2L, 1T
SOC200Y	Introduction to Social Research (Offered in alternate years) How social observations are used to develop and test sociological ideas. A variety of theoretical approaches and research techniques are critically examined to illustrate general principles of conceptualization, measurement, and explanation. <i>Prerequisite:</i> SOC101Y.	2L, 1P
SOC201Y	Social Statistics (Offered in alternate years) An introduction to data analysis which emphasizes understanding rather than mathematics, exploratory techniques (how to look for hypotheses); corresponding confirmatory techniques (how to test hypotheses). Basic analysis of variance, regression, chi-square; tables and graphs. <i>Exclusion:</i> Statistics courses. <i>Prerequisite:</i> SOC101Y.	2L, 1P
SOC202Y	Structure of Interpersonal Relations A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. <i>Prerequisite:</i> SOC101Y.	2L, 1T
SOC203Y	History of Social Theory Origins and development of the classical tradition of sociological theory; the social and political ideas of this tradition; historical contexts, ideological elements and contemporary relevance. <i>Prerequisite:</i> SOC101Y.	2L, 1T
SOC205Y	Urban Sociology Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. <i>Prerequisite:</i> SOC101Y.	2L, 1T
SOC206Y	Social Organization Theories of exchange between individuals or groups, value consensus, networks, and modes of production as the organizational bases of society. Theories are compared and evaluated according to their internal consistency, utility in informing empirical research, and their compatibility or incompatibility with other approaches. <i>Prerequisite:</i> SOC101Y.	2L, 1T

- SOC207Y Sociology of Work and Occupations**
The nature and meaning of work in relation to changes in the position of the professions, unions and government, of women and minority groups, and in industrial societies more generally. Career choice and strategies, occupational mobility, and individual satisfaction at work. *Prerequisite:* SOC101Y.
- SOC212Y Deviance and Control** 2L, 1T
A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. *Prerequisite:* SOC101Y.
- SOC214Y Sociology of the Family** 2L, 1T
Development of the contemporary western family with special emphasis on changing relations among its members. *Prerequisite:* SOC101Y.
- SOC215Y Socialization** 2L, 1T
The acquisition and reproduction of personality, culture, and social structure. Topics will include socialization and the socio-biology debate, psycho-social, cognitive, and behavioural approaches to human development, child-rearing practices, sex-role acquisition and learning, structural influences on values, attitudes and aspirations, political socialization, adult socialization and aging, and the comparative study of socialization. *Prerequisite:* SOC101Y.
- SOC220Y Canadian Society** 2L, 1T
An analysis of the changing structure of Canadian society. *Prerequisite:* SOC101Y.
- SOC284Y Communication and Ethics** 2L
This course examines the different ways that the flow and the content of information is controlled by various agencies, as well as the effects of censorship - or lack of it - on society. *Prerequisite:* SOC152Y.
- SOC301Y Social Inequality** 2L, 1T
Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories that have attempted to account for these phenomena. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC303H Careers in Crime and Delinquency** 2L, 1T
An examination of delinquent and criminal life-styles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. *Prerequisite:* SOC101Y, 212Y.
- SOC304Y Change and Conflict in Contemporary Society** 2L, 1T
An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped nations. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC305Y Sociology of Religion (Offered in alternate years)** 2L, 1T
Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will be stressed. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC308H The Canadian Media (Offered in alternate years)** 1L, 1T
Description and analysis of what is unique and distinctive about the electronic, printed and graphic media in Canada. Main topics of discussion: foreign influence in policy and decision-making (e.g. American ownership of major publishing firms), national networks in competition with private enterprise, the demand for more "Canadian content", the need for bilingual media, alternative presses, the handling of political crises and scandals in news reporting, etc. *Prerequisite:* SOC152Y and 1 SOC course at 200 level either previously or concurrently.

- SOC309Y Sociology of Mass Communication** 2L, 1P
The course first critically appraises some modern communications theorists --Innis, McLuhan, Meier--and then dissects some old and new Canadian media institutions. Special emphasis on the origin and destiny of innovation, governmental media organizations and their articulation with media institutions. Participants create a project utilizing one medium. Enrolment limited. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC311Y Sociology of Education** 2L, 1T
An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC312Y Population and Society** 2L, 1T
An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. *Prerequisite:* SOC101Y, 200Y/201Y.
- SOC313Y Sociological Theory** 2L, 1T
The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC315Y Interaction in Institutional Settings** (Offered in alternate years) 2L
Ethnographic description and comparative analysis of standard social occasions taking place within the domains of the corporation, the church, school, government, and the court. The primary course objective is the observation and documentation of the everyday enactment of institutional "rules of the game" for social interaction. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC316Y Group Structure and Process** (Offered in alternate years) 2L, 1P
The study of small group processes and structures, including leadership, influence, cliques and coalitions, communication patterns, productivity and morale. *Prerequisite:* SOC101Y, 202Y.
- SOC321H Social Research Methods II: Techniques and Applications** 2L, 1P
(Offered in alternate years)
Theoretical and applied problems in research design, sampling and measurement with emphasis on survey research. *Prerequisite:* SOC101Y, 200Y.
- SOC322H Social Statistics II: Techniques and Applications** 2L, 1P
(Offered in alternate years)
The understanding and application of multivariate analysis using computers in the survey research environment. *Prerequisite:* SOC101Y, 201Y.
- SOC324Y Politics and Society** 2L, 1T
The social basis of politics. Culture and social organization in their relation to power and its application. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC328H Environmental Sociology** 3S
An examination of the multi-faceted relationship between the physical environment, especially the built environment (e.g. buildings) and human behaviour. Principles underlying people's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered. *Prerequisite:* SOC101Y, 205Y.

- SOC329H Collective Behaviour** 2L, 1T
An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC330H Race and Ethnic Relations** 2L, 1T
Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.
- SOC332Y Small-group Communication** 1L, 1T
Verbal and nonverbal interaction in therapeutic, educational, administrative and business settings. Special attention will be paid to leadership, effective and ineffective communication, persuasive manipulations, conflict situations, decision making, permission, protection and power. Some of the material will be presented in simulated social situations. *Prerequisite:* SOC152Y and 1 SOC course at 200 level either previously or concurrently.
- SOC333Y Stigmatization, Liberation and Communication** 1L, 1T
(Offered in alternate years)
Topics: 1. verbal and nonverbal aspects of the labelling process; 2. alternatives of identity management by the stigmatized; 3. verbal and nonverbal communication among members of the same stigmatized group, intergroup communication and communication between stigmatized and stigmatizer. Special emphasis on communication processes and media of the various liberation movements. *Prerequisite:* SOC152Y and 1 SOC course at 200 level either previously or concurrently.
- SOC334Y Communication and Children** 1L, 1T
Description and analysis of children's verbal and nonverbal communication networks, patterns and skills in the playgroup, in the classroom and with siblings, and with teachers, parents and some other adults. *Prerequisite:* SOC152Y and 1 SOC course at 200 level either previously or concurrently.
- JGS340Y Concepts, Methods and Values in Urban Studies**
Designed for students concentrating in urban studies irrespective of major disciplinary area. A survey of a variety of types of urban study from the social science perspective. Linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. Given by the Departments of Sociology and Geography. *Prerequisite:* SOC101Y, 205Y/GGR245Y and SOC201Y/GGR202H.
- SOC345Y Canadian Communities** 2L, 1T
This course focuses on methods of defining and analysing Canadian communities and urban communities. Processes of development and change are emphasized. Communities are also examined within a comparative perspective. *Prerequisite:* SOC101Y, 205Y.
- SOC346Y Society, Organization, and the Individual (Formerly SOC314)** 2L, 1T
An analysis of formal organizations, e.g. hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. *Prerequisite:* SOC101Y and 1 SOC course at 200 level either previously or concurrently.

SOC390Y/391H/392H Independent Research

Intended for Sociology Specialists and Minors who have completed ten university courses, i.e., be in third year, and who wish to explore in depth a particular subject area in sociology. Students must have completed or be taking concurrently the required method and theory courses (SOC 200Y/201Y and SOC313Y, or their equivalent), and have attained a B average in SOC courses. There is a limit of two full course credits, or equivalent, of independent studies and not more than one full course or equivalent can be taken with the same instructor. To enrol, a student must submit a specific proposal and obtain the approval of both the instructor and the faculty advisor.

NOTE: Fourth-year courses provide the opportunity for greater specialization than is generally possible in second and third years. The actual content for "selected topics" courses, and additional prerequisites (if any) will be set by the instructor offering the course. Students who wish more information concerning specific courses and topics to be covered are advised to see the Faculty Advisor for Sociology.

SOC410H Selected Topics in Sociological Theory and Research Methods I 2S, 1P
Prerequisite: SOC200Y/201Y for research methods topics and SOC313Y for sociological theory topics, and at least two additional sociology courses beyond the introductory level.

SOC411H Selected Topics in Sociological Theory and Research Methods II 2S, 1P
Prerequisite: Same as for SOC410H.

SOC420H Selected Topics in Interpersonal Relations I 2S, 1P
Prerequisite: SOC202Y, and at least two additional sociology courses beyond the introductory level.

SOC421H Selected Topics in Interpersonal Relations II 2S, 1P
Prerequisite: Same as for SOC420H.

SOC422H Selected Topics in Urban Sociology and Population I 2S, 1P
Prerequisite: SOC312Y for population topics, and SOC205Y for topics in urban sociology, and at least two additional courses in sociology beyond the introductory level.

SOC423H Selected Topics in Urban Sociology and Population II 2S, 1P
Prerequisite: Same as for SOC422H.

SOC490Y/491H/492H Independent Research

Open only to students who have completed fifteen university courses, i.e., be in fourth year, and have a B average in SOC courses. For other requirements and restrictions, see SOC390Y/391H/392H.

SPANISH

Faculty Advisor: Professor E.G. Neglia

Hispanic culture offers a variety probably unrivalled by any other modern western culture. In the Middle Ages Spain was the vital point of contact between the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world.

Spanish studies has a twofold goal; the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

Courses are offered for beginners in the language, as well as those with Grade 13 standing or equivalent. Stress is laid on both the spoken and written language and the language laboratory is used to promote fluency. After the first year all courses, both literary and linguistic, are conducted in Spanish as much as possible to give the student maximum exposure to the language.

Two courses, Spanish Civilization and Culture, and Latin American Civilization and Culture, are offered in English and may be taken by students in any year. These courses provide comprehensive views of the social, political, artistic and intellectual developments of Spain and Latin America and have proven useful not only to students studying the language but also to those who may have an interest in the Hispanic scene for other reasons.

Core language courses are offered in all years. Students wishing to specialize would, in addition to these core courses, follow programmes in literature and linguistics designed to allow them to enter Graduate Studies in Spanish or Type A courses at the Faculty of Education. Students may elect a single specialization (nine courses) or a combined specialization programme of Spanish and any other discipline (seven). In addition, Erindale offers a minor programme in Spanish consisting of five courses.

Opportunities for qualified teachers exist at the secondary and university levels. In addition, the study of Spanish as of other modern languages, may prepare students for such careers as those in the foreign service, journalism, publishing, commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of opportunity for those well versed in the Hispanic field.

In addition to Erindale course offerings, other courses may be taken on the St. George campus with the permission of the Faculty Advisor. Students may also wish to participate in the Study Elsewhere programme.

Early consultation with the staff is essential if the student is to be assured of a programme suitable for his needs and interests.

Courses with low enrolment may have to be withdrawn.

Please see Section 7 for details of Programme Requirement.

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|---------|---|--------|
| SPA100Y | Spanish Language for Beginners
For those who have had no previous background in Spanish. By the end of the year, students should have sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory. <i>Exclusion:</i> Grade 13 Spanish. | 3L, 2P |
| SPA220Y | Composition and Oral Practice II
Conducted mainly in Spanish and designed for those who have completed a basic course in the language. A grammar review and intensive written and oral practice provide an opportunity for a greater range of expression and a broader understanding of the language. <i>Prerequisite:</i> SPA100Y/Grade 13 Spanish. | 2L, 1T |
| SPA250Y | Spanish Civilization and Culture (In English) (Formerly SPA291Y)
Presents an overall view of the activities of the Spanish people from the early settlers of the peninsula to the current scene. Using the history of the country as a basic frame, it deals with the major currents of thought and the major accomplishments in literature, art, architecture and music. Slides, music and other illustrative material will be used. | 2L |
| SPA258Y | Forms of Modern Hispanic Literature (Formerly SPA247F and SPA257S)
An introduction to ways of analysing literature through a study of Modern Hispanic literary texts (drama, prose and poetry). <i>Exclusion:</i> SPA247F, 257S <i>Prerequisite:</i> SPA100Y/Grade 13 Spanish. | 2L |
| SPA280Y | Latin American Civilization and Culture (Formerly SPA292Y)
From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; deals with significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material. | 2L |

- SPA320Y Composition and Oral Practice III** 2L, 1T
Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice. *Prerequisite:* SPA220Y.
- SPA348Y Modern Hispanic Drama** (Formerly SPA346H and 376H) (Offered in alternate years) 2L
The major Spanish and Spanish American playwrights of the 20th century. Plays will be discussed and analyzed and, to reveal their full meaning in tangible theatrical terms, students will be encouraged to participate in the actual performance of some plays in a real theatre atmosphere. *Exclusion:* SPA346H, 376H. *Prerequisite:* SPA220Y.
- SPA350Y Spanish Literature of the Golden Age** (Offered in alternate years) 2L, 1T
A study, in Spanish, of Spain's most interesting and richest period, comprising the sixteenth and seventeenth centuries. Original texts - poetry, drama and novel - will be studied as reflecting the society of the age and its changing values. Special attention will be given to the picaresque novel and Cervantes. *Prerequisite:* SPA220Y and one other course of the 200-or 300-series.
- SPA356H Modern Spanish Novel** (Offered in alternate years) 2L
Covers the period from the beginning of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish. *Prerequisite:* One or more SPA200-series courses.
- SPA366H Modern Spanish American Poetry** (Offered in alternate years) 2L
A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, César Vallejo for special study. *Prerequisite:* One or more SPA 200-series courses.
- SPA382H Modern Spanish American Novel** (Offered in alternate years) 2L
A study of the representative novels of Spanish America, including the regional and Indianist novel as well as that of the Mexican revolution. *Prerequisite:* One or more SPA 200-series courses.
- SPA385H Spanish American Stories** (Offered in alternate years) 2L
Representative works of outstanding Spanish American short story writers including Quiroga, Cortázar, Rulfo and Borges. *Prerequisite:* One or more SPA 200-series courses.
- SPA420Y Advanced Composition and Oral Practice IV** 2T
Designed for those who already have a good knowledge of the language. Emphasis on ability to write and speak good Spanish through translation, essays, letters, class discussions, etc. *Prerequisite:* SPA320Y.
- SPA425H History of the Spanish Language** (Formerly SPA325H) (Offered in alternate years) 1L
Begins with an introduction to phonetics, phonology and basic concepts of linguistics. Proceeds to the study of the evolution of Spanish from its vulgar Latin origins up to the present day. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Given in Spanish. *Prerequisite:* SPA220Y.
- SPA436H Contemporary Spanish Poetry** (Offered in alternate years) 2L
A study of some major poets and poetics of the twentieth century. The lectures will be in Spanish. *Prerequisite:* SPA220Y. *Corequisite:* SPA320Y.

STATISTICS

Faculty Advisor: Professor G. Antille

Statistical theory and methodology have applications in almost all areas of science, engineering, business, government and industry. The practising statistician is involved in such diverse projects as designing clinical trials to test a new drug, economic model-building to evaluate the costs of a guaranteed-income scheme, predicting the outcome of a national election, planning a survey of television viewing habits, and estimating the animal population in a popular hunting district. Today's consumer is bombarded with the results of so many quantitative studies using statistical methodology that it is necessary for him to know something about statistics in order to be properly critical. A basic knowledge of statistics should be an integral part of everyone's general education.

STA202H-212H is designed for the student who wishes an introduction to statistical thinking without bringing in such tools as probability theory and mathematical analysis. It is a terminal course, emphasizing the handling of data and graphical procedures in making inferences about populations.

STA242Y is designed for the more mathematically prepared student and is the necessary prerequisite for all third and fourth year courses in Statistics at Erindale.

STUDENTS WHO ARE INTERESTED IN A PROGRAMME ARE STRONGLY URGED TO HAVE EARLY CONSULTATION WITH THE FACULTY ADVISOR OR ANY STAFF MEMBER.

Please see Section 7 for details of Programme Requirement.

STA202H (I)	Statistics Acquaints beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. <i>Exclusion:</i> Any concurrent or previous Statistics course.	2L, 1T
STA212H (I)	Application of Statistics A continuation of STA202H including an introduction to non-parametric, analysis of variance and linear regression techniques. Students interested in taking this course should consider carefully the courses listed below as exclusions and choose the appropriate sequence after discussion with faculty members. <i>Exclusion:</i> STA222Y(G), 242Y, 252Y(G), PSY201H, 202H, ECO220Y, GGR212H, BIO361H. <i>Prerequisite:</i> STA202H.	2L, 1T
STA242Y	Probability and Statistics: An Introduction Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. <i>Exclusion:</i> STA212H, 222Y(G), 252Y(G), PSY201H, 202H, ECO220Y, GGR212H, BIO361H. <i>Prerequisite:</i> (MAT130Y and MAT124H)/MAT132Y/134Y/135Y/138Y/139Y.	2L, 1T
STA302H	Regression Analysis (Offered in alternate years) Least squares theory and fitting equations to data, analysis of residuals, transformations. Practical implementations stressed. <i>Prerequisite:</i> STA242Y (C or better).	2L, 1T
STA312H	Methods of Statistical Inference A survey course: the mathematical methods of statistical inference. <i>Exclusion:</i> STA352Y(G). <i>Prerequisite:</i> STA242Y.	2L, 1T
STA347H	Probability and Applications (Offered in alternate years) Probability spaces and random variables, conditional probability, characteristic functions, limit laws. Application of common probability distributions. Introduction to stochastic processes. <i>Exclusion:</i> STA357Y(G). <i>Prerequisite:</i> MAT234Y/235Y/239Y; STA242Y.	2L, 1T
STA402H	Experimental Design (Offered in alternate years) Statistical issues in the design of experiments and the collection of data. Analysis of variance, randomization, factorial designs, blocking, confounding, higher-way tables. <i>Prerequisite:</i> STA302H.	2L, 1T

- STA412H Estimation and Testing** 2L, 1T
Basic theory of estimation and hypothesis testing. *Prerequisite:* STA312H.
- STA432H Advanced Statistics** 2L, 1T
Topics selected from: non-parametric techniques, multivariate analysis, decision-theoretic methods, Bayesian analysis, exploratory data-analysis, sequential procedures, reliability and life-testing. *Prerequisite:* STA242Y.

SURVEY SCIENCE

Faculty Advisor: Professor G. Gracie

Survey Science is concerned with the measurement and representation of the geometric and physical features of our environment. It finds application in a variety of activities, which include mapping the earth's surface and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, determining the size and shape of the earth, and locating transportation facilities and other engineered structures.

Survey Science has close contact with many other disciplines, particularly those which deal with the land, its use, subdivision, development and management. Although very much a quantitative science, built upon a strong base of mathematics, physics and statistics, it also includes a substantial treatment of the law as it relates to the land and professional conduct.

Students who intend to become professional land surveyors in Ontario will satisfy the academic requirements of the Association of Ontario Land Surveyors by completing the four-year *Specialist programme* (Old) outlined in detail in Section 7 of this calendar, or by completing the four-year *Specialist programme* (New), also outlined in Section 7, and additional elective courses specified by the Association. All SUR courses, except SUR250H, 350H, 360H, 430H, and 450H, count as science credits.

Please see Section 7 for details of Programme Requirement.

- SUR200Y Introduction to Surveying** 2L, 3P
(I) Introduction to the procedures used to acquire field data, process survey information, and present results in various forms, with applications in various surveying activities. *Prerequisite:* Grade 13 MAT R&F and C.
- SUR210H Introduction to Survey Analysis** 2L, 1T
Application of matrix methods and the computer to the analysis of survey problems. Coordinate transformations. Linearization of computational models. Error analysis and error propagation. *Prerequisite:* MAT132Y/138Y. *Corequisite:* SUR200Y.
- SUR220Y Photogrammetry** 2L, 3P
Stereoscopy and parallax, photograph geometry, the metric camera, interior and exterior orientation of the metric photograph, the projective model, space resection and intersection, relative and absolute orientation. Photogrammetric instrumentation. Application of photogrammetry to map compilation and other areas. *Prerequisite:* MAT132Y/138Y and PHY118Y/140Y.
- SUR230Y Land Surveying** 2L, 3P
Principles and procedures for precise surveying measurements to determine direction, distance, elevation and position. Construction surveys dealing with alignment and the volume of materials. *Prerequisite:* MAT132Y/138Y, PHY118Y/140Y, SUR200Y.
- SUR240H Measurement Theory and Adjustment of Observations** 2L, 2P
The statistical theory of measurement, including the concepts of measurement and error, measures of precision and accuracy, error propagation, weighting of observations, error ellipses and ellipsoids, and the statistical properties of 2- and 3-dimensional errors. The method of least squares, with application to several problems. *Corequisite:* STA242Y.

- SUR250H Introduction to Survey Law** 3L
Legal history; legal systems and institutions; introduction to English law in general, with emphasis on land law. *Prerequisite:* INE203H/205H.
- SUR260H Introduction to Land Planning** 3L
Fundamentals of obtaining and processing site information to provide the framework for land planning and site development design. *Prerequisite:* EPS120Y/GGR100Y.
- SUR303Y Geodesy** 2L, 2P
The figure of the earth and the precise determination of position and height on or near the earth's surface. Fundamentals of geometrical geodesy, physical geodesy, satellite geodesy and map projections. *Prerequisite:* MAT132Y/138Y, PHY118Y/140Y, SUR200Y.
- SUR305H Geodetic Astronomy** 2L, 3P
The celestial sphere and its coordinate systems, variations in celestial coordinates, time systems, star catalogues and instrumentation. Determination of astronomic azimuth, latitude and longitude. *Prerequisite:* SUR230Y.
- SUR310Y Survey Analysis (To be offered first in 1982-83)** 2L, 3P
The statistical theory of measurement, precision and accuracy, variance-covariance propagation, and error ellipses and ellipsoids. Least squares adjustment of survey measurements. Pre-analysis procedures. Applications in horizontal and vertical control surveys. *Exclusion:* SUR240H, SUR410H. *Prerequisite:* SUR210H, SUR230Y, STA242Y. *Recommended preparation:* CSC139/149H.
- SUR320H Data Management and Representation** 2L, 2P
Cartographic, photographic, digital and other forms of data representation. Data transfer, storage and retrieval. Data bases and data banks. Automated and interactive systems. *Prerequisite:* CSC139H/149H, SUR220Y.
- SUR331H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR332H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR333H Special Topics in Survey Science**
Study of selected topics in Survey Science not covered in the regular courses. *Prerequisite:* P.I.
- SUR340H Land Planning: Regional Studies Project**
Principles and practice of urban and rural planning and major development works. Land use and other studies needed for comprehensive planning and preparatory to site planning and development. *Prerequisite:* SUR260H.
- SUR346H Drainage Law and Engineering** 3L
Legal and engineering aspects of land drainage. Particular emphasis on the Drainage Act for Ontario. *Prerequisite:* SUR230Y, SUR260H. *Recommended preparation:* SUR250H.
- SUR350H Land Law and Registration** 3L
Real property law; land survey systems; title and deed registration systems. *Prerequisite:* SUR250H.
- SUR360H Boundary Law** 3L
Boundaries, land parcel descriptions; principles of evidence. *Prerequisite:* SUR350H.

- SUR405H Field Survey Projects**
An intensive three-week session in the field covering various aspects of survey project design, data acquisition, data reduction and layout. The first two weeks (May 11 through May 22, 1981) are held off campus; the third week (September 8 through September 11, 1981) is held on the campus. *Prerequisite:* SUR230Y, SUR240H, SUR303Y, SUR305H.
- SUR410H Survey Control** 2L, 2P
The fundamentals of survey control systems; specific control systems, such as geodetic triangulation and trilateration, photogrammetric triangulation, and satellite triangulation. *Prerequisite:* SUR220Y, SUR405H.
- SUR420Y Survey Design and Synthesis** 2L, 2P
Consideration of the factors involved in the design and synthesis of cartographic, hydrographic and engineering surveys. *Corequisite:* SUR410H.
- SUR430H Professional Affairs** 3L
History and tradition of surveying; professional charter by statute; ethics and responsibility; liability; fundamentals of business management; contract law; negligence law; court procedure and expert witness. *Prerequisite:* SUR360H.
- SUR440H Land Planning: Site Development** 2L, 1P
Development of land within the concept of the Official Plan. Subdivisions, condominiums and general site development and approval procedures. *Corequisite:* SUR340H.
- SUR450H Advanced Survey Law** 3L
Advanced studies in Canadian survey law; environmental law; drainage law; land information systems and cadastre; special topics. *Prerequisite:* SUR360H.

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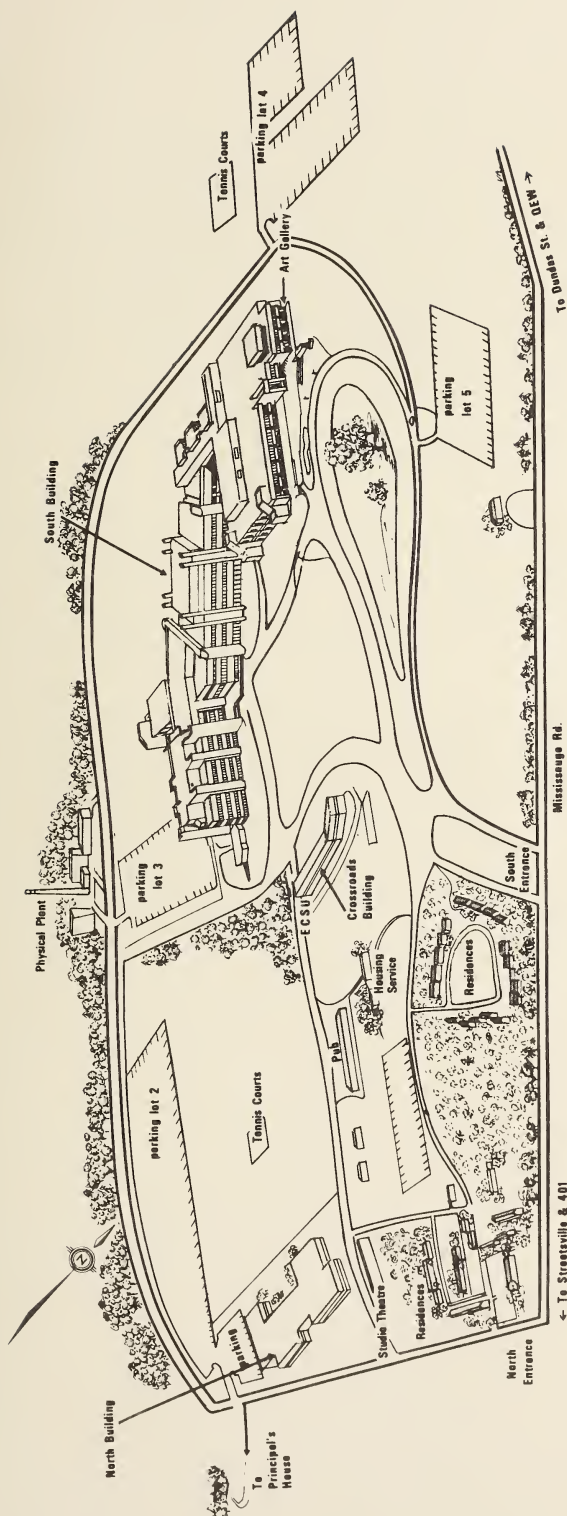
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**ERINDALE COLLEGE
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See inside front cover for highway map.

